



Transport
Canada

Transports Canada

Tower "C", Place De Ville
330 Sparks Street
Ottawa, Ontario K1A 0N5

December 11, 2018

Subject: Request for Proposal T8080-180076
DEVELOPING ENGINEERING EXAMINATION QUESTIONS

The Department of Transport has a requirement to establish a contract(s) to undertake the above reference project in accordance with the Statement of Works & Evaluation criterias attached hereto as Appendix "B".

If you are interested in undertaking this project, you are invited to submit a proposal. Please indicate clearly on the envelope or package "**BID/PROPOSAL T8080-180076**", together with the title of the work, name and address of your firm, and address it to:

Transport Canada
Mail Room Operations – Food Court Level
Tower "C", Place de Ville
330 Sparks Street
Ottawa, Ontario K1A 0N5

Proposals must be received at the above noted address **no later than 14:00 hours** (2 p.m.) Ottawa local time on **January 25, 2019**. It is the bidder's responsibility to deliver their proposal prior to tender closing. Proposals received after 14:00 hours will not be accepted and will be returned to the sender unopened.

Proposals submitted by **Fax, E-mail or Internet** will **not** be accepted.

Note: It is the practice for local couriers to deliver directly to the above noted address. However, we have noted that out-of-town couriers deliver to our main mailroom, which requires an internal mail delivery that can delay reception of the bid by Tender Reception. If your proposal is sent from outside the National Capital Region, please **ensure** that the courier company delivers it **directly** to the above noted Tender Address no later than the time and date specified herein.

Proposals will be evaluated in accordance with the pre-determined Evaluation Criteria and methodology specified in Appendix "B".

PROPOSALS ARE TO BE SUBMITTED USING THE FOLLOWING TWO-ENVELOPE SYSTEM FOR EACH PART OF THE REQUIREMENT THAT IS BID ON. NOTE THERE ARE FOUR PARTS TO THIS REQUIREMENT.

ENVELOPE 1 - TECHNICAL PROPOSAL

Your proposal is required to form the basis of a contractual agreement and should respond to all requirements detailed in the Statement of Work in sufficient detail to enable evaluation in accordance with the Evaluation Criteria including:

- an indication of an understanding of the requirements and responsibilities of the project;
- a summary of company experience directly related to the Statement of Work;
- names of resource(s) proposed to be assigned to the work, together with a résumé of related experience and a contingency plan in the event the resource becomes unavailable;
- sub-contractors or associates proposed, their capabilities, experience and degree of involvement in the project;

FOUR (4) copies of the Technical Proposal are required.

NOTE: NO COST INFORMATION IS TO BE INCLUDED IN ENVELOPE 1.

ENVELOPE 2 - COST PROPOSAL

Bidders shall complete and return **TWO** (2) copies of the "Offer of Services" (Appendix "A") form in Envelope 2.

Note: Only cost information shall be provided in Envelope 2. All technical information supporting the proposal must be in Envelope 1 as Envelope 2 will only be opened after the technical evaluation is complete, and only if the technical proposal achieves at least the minimum score(s) indicated in the Evaluation Criteria.

Proposals that do not meet all the MANDATORY requirements will not be considered, and the Cost envelope will be returned to the bidder unopened.

The Offer of Services form is to be signed in accordance with the Requirements for Signature attached hereto as Appendix "E".

Both Technical Proposal and Cost Proposal envelopes are to be sealed and submitted together in a third envelope addressed to the Tender Reception address shown on Page 1 of this letter.

In the event that you are the successful bidder, you will be expected to enter into an agreement that includes the General Conditions attached hereto as Appendix "C".

Intellectual Property:

Transport Canada has determined that any intellectual property arising from the performance of the work under any resulting contract will vest in Canada, on the following grounds: where the main purpose of the Crown procurement and information for public dissemination.

Please refer to the Supplemental Conditions attached hereto as Appendix "D".

Confidentiality Requirement:

Please refer to the Supplemental Conditions attached hereto as Appendix "D-1".

Questions with respect to the meaning or intent of the Request for Proposal (RFP) documents, or requests for correction of any apparent ambiguity, inconsistency or error in the documents, **must be submitted in writing** to Trevor Hardman, Transport Canada, e-mail trevor.hardman@tc.gc.ca, and **must be received no later than five (5) calendar days before the bid closing date**. All answers will be in the form of written Addenda to the RFP and will be sent to all prospective tenderers.

Canada reserves the right to:

- a) Cancel the bid solicitation at any time;
- b) Reissue the bid solicitation; and
- c) Negotiate with the sole responsive bidder to ensure best value to Canada.
- d) Reject any or all bids received in response to the bid solicitation;

By submitting a proposal, the Bidder acknowledges Canada's rights under this section and waives any right, or cause of action, against Canada by reason of Canada's failure to accept the proposal submitted by the Bidder, whether such right or cause of action arises in contract, negligence, or otherwise".

Yours truly,

(Original signed by)

Trevor Hardman
Transport Canada
Acting Team Leader, Contracting and Procurement
330, Sparks Street
Place de Ville – Tower C
Ottawa, Ontario - K1A 0N5
Tel.: 204 296-2803
E-Mail: trevor.hardman@tc.gc.ca

Canada

CHECKLIST OF DOCUMENTS

INVITATION TO TENDER

OFFER OF SERVICES	APPENDIX	"A"
STATEMENT of WORK and SELECTION CRITERIA's	APPENDIX	"B"
GENERAL CONDITIONS	APPENDIX	"C"
SUPPLEMENTARY CONDITIONS		
• INTELLECTUAL PROPERTY	APPENDIX	"D"
• CONFIDENTIALITY CLAUSE	APPENDIX	"D-1"
REQUIREMENTS FOR SIGNATURE	APPENDIX	"E"
INSURANCE CONDITIONS	APPENDIX	"F "
INSTRUCTIONS TO TENDERERS	APPENDIX	"G"
FEDERAL PROGRAM EMPLOYMENT EQUITY	APPENDIX	"H"
BIDDER'S DECLARATION	APPENDIX	"I"
SAMPLE RETURN ENVELOPE FORMAT		

TRANSPORT CANADA
APPENDIX "A"
OFFER OF SERVICES

OFFER FOR: DEVELOPING ENGINEERING EXAMINATION QUESTIONS

TENDER SUBMITTED BY:

_____ (Company name)

_____ (Complete Address)

GST Number _____ **PBN Number** _____

Telephone Number: _____
Fax Number: _____
Contact Person: _____
Email Address: _____

1. General

The Undersigned (hereinafter referred to as "the Contractor") hereby offers to Her Majesty the Queen in Right of Canada (hereinafter referred to as "Her Majesty") as represented by the Minister of Transport (hereinafter referred to as "the Minister") to furnish all necessary expertise, supervision, materials, equipment and all other things necessary to complete to the entire satisfaction of the Minister or his authorized representative, the work described in the Statement of Work which are attached hereto as Appendix "B".

2. Execution of Work

The Contractor hereby offers to perform and complete the work at the place and in the manner set out in accordance with the following documents:

- (i) This Offer form marked Appendix "A", attached hereto and entitled "Offer of Services";
- (ii) Document marked Appendix "B", attached hereto and entitled "Statement of Work";
- (iii) Document marked Appendix "C", attached hereto and entitled "General Conditions";
- (iv) Document marked Appendix "D" – "D-1", attached hereto and entitled "Supplementary Conditions – Intellectual Property" and "Confidentiality" clause.

3. Period of Services

All the deliverables must be received on or before 40 weeks after contract award date.

Any contract concluded as a result of the acceptance of this offer will be awarded for the specified period above.

4. Cost Proposal

4.1 Professional Services and Associated Costs

The Cost Proposal quoted will be exclusive of travel expenses and GST/HST. All rates are in Canadian Funds.

The price shall be for actual time worked and any resulting deliverables in accordance with the firm all inclusive per diem rate for work performed during the period covered by the Contract. (Inclusive of all expenses that may be incurred in providing the services, such as profit, overhead, administrative costs, equipment and materials).

The Contractor shall tender an all-inclusive price for the conduct of all work as described in the Statement of Work.

In addition, the Contractor shall provide a breakdown of the tendered all-inclusive fixed price in accordance with the requirements identified in the attached Annex "A-1".

The Bidder should complete this pricing schedule and include it in its financial bid. As a minimum, the Bidder must respond to this pricing schedule by inserting in its financial bid the period specified below it's quoted all inclusive price.

The rates specified below, when quoted by the Bidder, include the total estimated cost that may need to be incurred for:

- a. Work described in Part 6, Resulting Contract Clauses, of this bid solicitation required to be performed within the National Capital Region (NCR). The NCR is defined in the National Capital Act, R.S.C. 1985, c. N-4, S.2.
- b. the relocation of resources

to satisfy the terms of any resulting contract. These expenses cannot be charged directly and separately from the professional fees to any contract that may result from the bid solicitation.

The inclusion of volumetric data in this document does not represent a commitment by Canada that Canada's future usage of the services described in the bid solicitation will be consistent with this data.

Travel Expenses: N/A

Payment for services rendered will be based on the following all-inclusive unit prices:

<u>Item</u>	<u>Rate</u>
Cost per Question	\$ _____

Total Estimated Contract Cost Not to Exceed: \$ _____
(GST extra)

4.2 Method of Payment

Payment will be made upon completion of all services to the satisfaction of the Departmental Representative, and upon receipt of an invoice submitted in accordance with the instructions provided in any contract concluded as a result of the acceptance of this offer.

The Department reserves the right to negotiate an acceptable payment schedule prior to the award

of any contract concluded as a result of the acceptance of this offer.

4.3 Provincial Sales Tax (PST)

Federal government departments are exempt from Provincial Sales Tax under authority of licences or certificates, which will be indicated in any resulting contract. The Contractor is not relieved of any obligation to pay provincial sales taxes on taxable goods or services used or consumed in the performance of the work.

4.4 Federal Goods and Services Tax (GST) and Harmonized Sales Tax (HST)

The prices and rates quoted herein are not to include any provision for the Goods and Services Tax or the Harmonized Sales Tax.

4.5 Appropriate Law

Any contract awarded as a result of this Request for Proposal shall be governed by and construed in accordance with the laws in force in the Province of Ontario, Canada.

4.6 Tender Validity

The Contractor agree(s) that this Offer of Services will remain firm for a period of 90 calendar days after the proposal closing date.

5. Proposal Documents

The Contractor herewith submits the following:

- (a) A proposal in **four (4)** copies to undertake the work in accordance with the requirements detailed in the Request for Proposal documents.
- (b) **Two (2)** copies of this Offer of Services, duly completed and signed.

OFFERS THAT DO NOT CONTAIN THE ABOVE-MENTIONED DOCUMENTATION OR DEVIATE FROM THE COSTING FORMAT MAY BE CONSIDERED INCOMPLETE AND NON-RESPONSIVE.

6. Bidder's Declaration

- (a) The bidder declares that the bidder has not, directly or indirectly, paid or agreed to pay, and will not, directly or indirectly, pay, a contingency fee to any individual for the solicitation, negotiation or obtaining of the contract if the payment of the fee would require the individual to file a return under section 5 of the Lobbying Act; and
- (b) The bidder declares that the bidder has not been convicted of an offence under section 121, 124 or 418 of the Criminal Code, other than an offence for which a pardon has been granted.

Attached hereto as Appendix "I".

7. Signatures

The Contractor herewith submits this proposal in accordance with the requirements specified in the Request for Proposal documents.

SIGNED, SEALED AND DELIVERED this _____ day of _____, 2018
In the presence of

NAME OF COMPANY

(Signing Officer and Position)

ANNEX “A-1”

DEVELOPING ENGINEERING EXAMINATION QUESTIONS

PRICE BREAKDOWN FOR T8080-180076

Bidders shall provide a breakdown of the Fixed Price in accordance with the following requirements for each part of the four parts of the requirement they choose to bid on.

The Contractor hereby offers to perform and complete the work for the following tendered costs. The all-inclusive prices/rates quoted below include all expenses that may be incurred in providing the services such as profit, overhead, administrative costs, equipment and materials.

The Contractor shall tender an all-inclusive price for the conduct of all work as described in the Statement of Work.

Payment for services rendered will be based on the following all-inclusive unit prices:

<u>Item</u>	<u>Rate</u>
Cost per Question	\$ _____
Total Estimated Contract Cost Not to Exceed:	\$ _____ (GST extra)

NOTE: The above cost breakdown is required to provide an indication of the unit price and other activities proposed by the bidder, and may be used to facilitate the evaluation of the proposal. The breakdown is provided solely in support of the tendered all-inclusive fixed price for Professional Services and Associated Costs. **The tendered all-inclusive fixed price will prevail in the event of any discrepancies between the two.**

APPENDIX "B"

STATEMENT OF WORK/SELECTION CRITERIA

The work is divided into four parts pertaining to the different subjects covered. Bidders may bid on one or more parts of the solicitation. As a result there is the possibility that there will be multiple contracts awarded as a result of this solicitation.

The four parts are:

Engineering Knowledge (Part 1)

Electro-technology and Automation (Part 2)

Naval Architecture and Ship Construction (Part 3)

Applied Engineering Science (Part 4)

Engineering Knowledge (Part 1) - Statement of Work

1. Scope

1.1 Title

Development of Examination questions and answers for assessment of knowledge of Marine Engineer Officers in the subject of **Engineering Knowledge**.

1.2 Introduction

The *Marine Personnel Regulations* requires the evaluation of qualifications before an applicant can obtain a Certificate of Competency as an Engineer Officer.

Part of the Minister of Transport's mandate is to determine the manner by which the qualifications of applicants are assessed and to ensure that the process is impartial.

1.3 Objectives of the Work

The objective of this project is to develop, in English, a bank of **1,100** questions and related multiple answer options, on the subject of **Engineering Knowledge** to be used in the evaluation of applicants for various levels of marine engineers' certificates issued pursuant to the *Marine Personnel Regulations*.

2. Requirements

2.1 Requirements in Relation to Deliverables

The Contractor will prepare, in English, a bank of multiple-choice exam questions and their respective answer options that will be submitted, sorted according to level and subject, in the numbers given in the table below.

The questions will be of the multiple-choice type with 4 choices per question. "All of the above" or "None of the above", if used, will always be the 5th option.

The questions must cover the knowledge described in the Model Courses recommended by the International Maritime Organization (IMO). The respective Model Course and the total number of questions for each level are given in the following table.

Level	Model Course	Number of Questions
Management	Model Course 7.02: "Chief Engineer Officer and Second engineer Officer, 2014 Edition	450
Operational	Model Course 7.04: "Officer in Charge of an Engineering Watch", 2014 Edition	350
Support	Model Course 7.09: "Ratings Forming Part of a Watch in a manned Engine-Room or Designated to perform Duties in a periodically unmanned Engine-Room", 2017 Edition	150
	Draft Model Course: Ratings as Able Seafarer Engine in a manned Engine-Room or Designated to Perform Duties in a Periodically Unmanned Engine-Room, 2017 Edition IMO document: HTW 4/3/2/Add. 1	150
	Total	1100

The detailed number of questions for each subtopic is given in the tables in Appendix 1A.

2.2 Quality assurance of multiple-choice questions

All submitted questions will be subject to quality control check according to the following criteria:

1. Questions on a specific subtopic must cover all areas of that subtopic.
2. The questions must test the understanding of the candidate. Questions that rely solely on memorization (of numbers, data, etc.) are not acceptable.
3. The answer options must be formulated so that they all "seem" to be the correct answer.
4. In problems solved numerically, the "wrong" answers should correspond to "typical" errors in the solution steps (e.g. wrong signs of quantities, errors with units, incorrect reference points, etc.), not just any arbitrary numbers.
5. "All the above" or "None of the above", while they can - sporadically - be used, will not count towards the required four options per question.
6. Clarity and plausibility of the question statement and the answer options are important.
7. No ambiguity is allowed in the question or in the answer options formulations.
8. No answer option will be obviously wrong/unreasonable/not feasible/trivial/outside normal limits/illogical, etc.
9. Answer options must be mutually exclusive.
10. Questions will be free from grammatical and spelling errors.
11. If answer options can be ordered, then they should be ordered.
12. Questions with negative formulations should be avoided.
13. For questions requiring numerical calculations, complete solution of the questions must be provided.

14. Reasoning why the wrong answer(s) are wrong must be given.
15. An approximate timing for each question must be given.
16. Questions will have an attached “difficulty” level: 1, 2, or 3. The questions will be divided equally between the 3 levels.

Level 1 will ask about the basics of the respective topic.

Level 2 will be about performing routine and emergency operations.

Level 3 will deal with scenarios that require judgment, experience and best practices while maintaining safety.

2.3 Tasks, Activities, Deliverables and Milestones (Work Breakdown Structure)

The questions and answers will be delivered on the dates indicated below. The questions will be prepared and delivered in a top-down order appearing in the tables of Appendix 1A.

A question is defined as: The question, its multiple answer options, and the identification of the correct answer, its numerical solution, if any. Each question will be submitted in the format given in Appendix 1B.

Definitions as per the table below:

ML = Management Level

OL = Operational Level

SL = Support Level

Task	Tasks/Activities	Deliverable	Weeks from Contract Award Date
	Participate in a teleconference with the Transport Canada Representative to discuss coordination.	Attend teleconference	1
1	<ul style="list-style-type: none"> • Questions to be delivered 	ML: 120	6
2	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	ML: 120	11
3	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	ML: 120	15
4	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	ML: 90 OL: 30	19
5	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	OL: 120	23
6	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	OL: 120	27
7	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	OL: 80 SL: 40	31

Task	Tasks/Activities	Deliverable	Weeks from Contract Award Date
8	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	SL: 130	35
9	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	SL: 130	39
10	<ul style="list-style-type: none"> • Contractor responds to last revisions • All questions delivered 	--	40

2.4 Specifications and Standards

The Contractor will provide the questions and answer options in Microsoft Excel **and** Microsoft Word, in versions no earlier than 2013. The specific format of the questions and answer options, is given in Appendix 1B.

2.5 Method and Source of Acceptance

All deliverables and services rendered under any contract are subject to approval by the Transport Canada Representative. Should any deliverables not be to the satisfaction of the Representative (or any other Transport Canada supervisor), Transport Canada shall have the right to reject it or require corrections before payment will be authorized. Payment equivalent to task will only be paid to the Contractor once the Transport Canada Representative has reviewed and approved the questions and answer options submitted by the Contractor.

2.6 Reporting Requirements

All written deliverables and final report must be submitted to the Project Authority in printable format and in electronic format (MS-Word format, Adobe PDF format, PowerPoint format, and MS-Excel format for any tables – compatible with Microsoft Office 2013 and Adobe Reader XI).

A full listing of all reference materials, bibliographies and data sources consulted are to be provided by the resource, including links to online source material (where applicable).

All deliverables shall be prepared in English.

Any publication or distribution of the final report will be determined by Transport Canada, which will be responsible for any translation, printing and distribution costs.

2.7 Ownership of Intellectual Property

Canada to Own Intellectual Property Rights, apply and form part of the Contract.

PWGSC has determined that any intellectual property arising from the performance of the Work under the Contract will vest in Canada, on the following grounds:

- 6.4.1 Where the main purposes of the Crown procurement contract or of the deliverables contracted for is to generate knowledge and information for public dissemination.

3. Security and Confidentiality:

3.1 Contractor's Obligations, Security and Confidentiality

1. Transport Canada will issue to the Contractor protected USB keys to perform the work. These keys will be used by the Contractor to save the developed questions and answers and to submit them to Transport Canada for evaluation. All shipping costs, if any, by the Contractor to Transport Canada will be at the Contractor's expense.
2. It is the responsibility of the Contractor to ensure that all documents containing, or pertaining to, the questions and answers are saved on the Transport Canada password protected USB keys, and to ensure that the USB keys and documents are always kept in a secure location;
3. No copies of the questions and/or answers will be kept in any form or format on any storage medium after the end of the contract;
4. No hard copies of the questions and answers bank will exist at any time;
5. All documents and proprietary information is confidential, during and after the end of the Contract;
6. All documentation, electronic or otherwise, in the Contractor's possession will be deleted or destroyed, as the case may be, after delivery and acceptance by Transport Canada;
7. The Contractor must meet all tasks, deliverables and milestones as identified in Section 2.3;
8. The Contractor must return all material belonging to Transport Canada to the Transport Canada Representative upon completion of the Contract;
9. The Contractor will attend meetings with the Transport Canada Representative on site or by teleconference and provide briefings, if requested; and
10. The Contractor will provide updates on the progress every 15 days from the start of the Contract and/or as frequently as needed. Transport Canada aims to have an open dialogue with the Contractor to facilitate the development of the questions and answers.

In accordance to Appendix "D-1", attached hereto and entitled "Confidentiality" supplementary clause.

3.2 Location of Work, Work Site and Delivery Point

The work will be performed at the Contractor's place of work. The Contractor will not have access to any Transport Canada offices or work computers.

3.3 Travel

There is no planned travel for this Contract. If the Contractor requests to travel, all related expenses will be paid by the Contractor.

3.4 Project Length

The Contractor must complete the work, no later than 40 weeks after contract award date.

4. Replacement of Personnel

- 4.1** If specific individuals are identified in the Contract to perform the Work, the Contractor must provide the services of those individuals unless the Contractor is unable to do so for reasons beyond its control.
- 4.2** If the Contractor is unable to provide the services of any specific individual identified in the Contract, it must provide a replacement with similar qualifications and experience. The replacement must meet the criteria used in the selection of the Contractor and be acceptable to Canada. The Contractor must, as soon as possible, give notice to the Contracting Authority of the reason for replacing the individual and provide:
- (a)** the name, qualifications and experience of the proposed replacement; and
 - (b)** proof that the proposed replacement has the required security clearance granted by Canada, if applicable.
- 4.3** The Contractor must not, in any event, allow performance of the Work by unauthorized replacement persons. The Contracting Authority may order that a replacement stop performing the Work. In such a case, the Contractor must immediately comply with the order and secure a further replacement. The fact that the Contracting Authority does not order that a replacement stop performing the Work does not relieve the Contractor from its responsibility to meet the requirements of the Contract.

5. Departmental Representatives

Contracting Authority

Trevor Hardman
Acting Team Leader, Contracting and Procurement
Procurement/Contracting Directorate
330 Sparks St., Main floor
Ottawa, ON K1A 0N5
204 296-2803
Email: trevor.hardman@tc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

Project Authority (at contract award)

Contact name:
Phone:
Fax:
Email:

The Project authorities are the representatives of the department for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority; however, the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

Contractor Representative (at contract award)

Contact Name:
Telephone:
Facsimile:
Email:

Appendix 1A

Engineering Knowledge Questions for the Management Level according to Subtopics

Main Subject	Topics	Subject Code	Sections in Model Course 7.02	Pages in Model Course	Number of Questions
M-EKG General Engineering Knowledge	M-EKG.1 Engineering Materials	M-EKG-MAT.1	1.2.7	50	7
		M-EKG-MAT.2	3.2.3	130	10
	M-EKG.2 Engineering Knowledge	M-EKG-2.1	1.1.1.1 - 1.1.2.1	38 -40	21
		M-EKG-2.2	1.1.4.1	41 - 42	10
		M-EKG-2.3	1.1.5.1	42	5
		M-EKG-2.4	1.2.3.1	47 - 48	5
		M-EKG-2.5	1.2.6	50	8
		M-EKG-2.6	1.3.2	53	8
		M-EKG-2.7	1.3.3.1 - 1.3.3.25	53 - 61	154
		M-EKG-2.8	1.3.5.1 - 1.3.5.7	62 - 64	20
		M-EKG-2.9	1.4.1	66 - 67	10
		M-EKG-2.10	3.1.1 - 3.1.4	127 - 128	26
		M-EKG-2.11	3.2.1 - 3.2.2	130	10
	M-EKG-2.12	3.3.1	133 - 135	22	
	M-EKG.3 Refrigeration and Air-Conditioning	M-EKG-REF.3	1.2.5	49	10
M-EKG.4 Maritime Law and Ship's Business (M-MLS)	M-EKG-MLS.1	4.2	175 - 200	20	
	M-EKG-MLS.2	National Laws and Regulations	n/a	15	
M-EKM Motor Engineering Knowledge	Motor Engineering Knowledge	M-EKM-1	1.1.3.1	41	5
		M-EKM-2	1.2.3.1, 1.2.3.2, 1.2.3.4	47 - 48	16
		M-EKM-3	1.3.1	52 - 53	21
		M-EKM-4	1.3.4.1	61 - 62	4
		M-EKM-5	1.3.4.3	62	4
M-EKS Steam Engineering Knowledge	Steam Engineering Knowledge	M-EKS-1	1.2.3.3	48	5
		M-EKS-2	1.3.1	52 - 53	21
		M-EKS-3	1.3.2	53	8
		M-EKS-4	1.3.4.2	62	4

Engineering Knowledge Questions for the Operational Level according to Subtopics

Main Subject	Topics	Subject Code	Sections in Model Course 7.04	Pages in Model Course	Number of Questions
O-EKG General Engineering Knowledge	O-EKG-MAT Engineering Materials	O-EKG-MAT-1	3.1.1	130 - 131	7
		O-EKG-MAT-2	3.1.2	131	5
		O-EKG-MAT-3	3.2.5	148 - 149	7
	O-EKG-CHM Industrial Chemistry	O-EKG-CHM-1	Appendix 5	256 - 258	21
	O-EKG-DRW Drawing	O-EKG-DRW-1	3.2.6.1 - 3.2.6.7	149 - 150	11
		O-EKG-DRW-2	3.2.7	151	2
	O-EKG Engineering Knowledge	O-EKG-1	1.1	27 - 28	15
		O-EKG-2	1.4.1.1.3 - 1.4.1.1.5	35 - 37	21
		O-EKG-3	1.4.1.1.6.b	38 - 39	5
		O-EKG-4	1.4.1.4	41 - 43	19
		O-EKG-5	1.4.1.5	44 - 45	10
		O-EKG-6	1.4.1.6.1	45 - 46	10
		O-EKG-7	1.4.1.6.4 - 1.4.1.6.8	49 - 52	25
		O-EKG-8	1.4.1.7 - 1.4.1.10	52 - 55	30
		O-EKG-9	1.4.2.2 - 1.4.2.3	56	7
		O-EKG-10	1.4.3.1 - 1.4.3.4.3	56 - 60	28
		O-EKG-11	1.5.1	63	5
		O-EKG-12	1.5.2	63 - 65	10
		O-EKG-13	1.5.3	65 - 66	4
	O-EKG-REF Refrigeration and Air-Conditioning	O-EKG-REF-1	1.4.1.6.2	46 - 48	19
		O-EKG-REF-2	1.4.1.6.3	48 - 49	2
		O-EKG-REF-3	1.4.3.4.4	61	4
	O-EKG-MLS Maritime Law and Ship's Business	O-EKG-MLS-1	4.1	173 - 183	9
O-EKG-MLS-2		4.6	200 - 211	10	
O-EKG-MLS-3		National Laws and Regulations	n/a	10	
O-EKM Motor Engineering Knowledge	O-EKM Motor Engineering Knowledge	O-EKM-1	1.4.1.1.6.a	37 - 38	5
		O-EKM-2	1.4.1.3	41	7
		O-EKM-3	1.4.2.1	52	5
O-EKS Steam Engineering	O-EKS Steam Engineering	O-EKS-1	1.4.1.2.2 - 1.4.1.2.3	40 - 41	14
		O-EKG-2	1.4.2.1	55 - 56	5

Knowledge	Knowledge	O-EKG-3	1.4.3.1 - 1.4.3.2	56- 58	15
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350

Engineering Knowledge Questions for the Support Level according to Subtopics

1. Engine Room Rating:

Topics	Subject Code	Sections in Model Course 7.09	Number of Questions
S-ERR-1	S-ERR-1	1.1	98
	S-ERR-2	1.2	21
	S-ERR-3	1.3	31

150

2. Able Seafarer Engine:

Topics	Subject Code	Sections in Model Course 7.xx	Number of Questions
S-ABE-1	S-ABE-1	1.1	14
	S-ABE-2	1.2	77
	S-ABE-3	1.3	14
	S-ABE-4	1.4	21
	S-ABE-5	1.5	24

150

Appendix 1B

Sample Question Format*

Level	Management / Operational		
Subject	Engineering Knowledge	Subject Code	M-EKG-2
Sub-subject	Injectors	Sub-subject Code	M-EKG-2.3
Serial Number in Topic	6/19	Serial Number in Sub-topic	M-EKG-2.3-1

Estimated Level of Difficulty	1, 2 or 3
Estimated time to answer (min)	x

Question Statement:			
Option 1	Statement of Option 1		Why is this option wrong
Option 2	Statement of Option 2		Why is this option wrong
Option 3	Statement of Option 3	√ (correct option)	
Option 4	Statement of Option 4		Why is this option wrong
Option 5, if used	Option 5 can only be "None of the above" or "All of the above"		Why is this option wrong

Complete solution (e.g. for problems including numerical calculations):

*Questions will be submitted in digital form in two formats, Word and Excel, the Excel format will be provided at the start of work.

Electro-technology and Automation (Part 2) - Statement of Work

1. Scope

1.1 Title

Development of Examination questions and answers for assessment of knowledge of Marine Engineer Officers in the subject of **Electro-technology and Automation**.

1.2 Introduction

The *Marine Personnel Regulations* requires the evaluation of qualifications before an applicant can obtain a Certificate of Competency as an Engineer Officer.

Part of the Minister of Transport's mandate is to determine the manner by which the qualifications of applicants are assessed and to ensure that the process is impartial.

1.3 Objectives of the Work

The objective of this project is to develop, in English, a bank of **500** questions and related multiple answer options, on the subject of **Electro-technology and Automation** to be used in the evaluation of applicants for various levels of marine engineers' certificates issued pursuant to the *Marine Personnel Regulations*.

2. Requirements

2.1 Requirements in Relation to Deliverables

The Contractor will prepare, in English, a bank of multiple-choice exam questions and their respective answer options in English that will be submitted, sorted according to subject and level, and in the numbers given in the table below.

The questions will be of the multiple-choice type with 4 choices per question. "All of the above" or "None of the above", if used, will always be the 5th option.

The questions must cover the knowledge described in the Model Courses recommended by the International Maritime Organization (IMO). The respective Model Course and the total number of questions for each level are given in the following table.

Level	Model Course	Total Number of Questions
Management	Model Course 7.02: "Chief Engineer Officer and Second engineer Officer, 2014 Edition	320
Operational	Model Course 7.04: "Officer in Charge of an Engineering Watch", 2014 Edition	180

	Total:	500
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The detailed number of questions for each subtopic is given in the tables in Appendix 2A.

2.2 Quality assurance of multiple-choice questions

All submitted questions will be subject to quality control check according to the following criteria:

1. Questions on a specific subtopic must cover all areas of that subtopic.
2. The questions must test the understanding of the candidate. Questions that rely solely on memorization (of numbers, data, etc.) are not acceptable.
3. The answer options must be formulated so that they all “seem” to be the correct answer.
4. In problems solved numerically, the “wrong” answers should correspond to “typical” errors in the solution steps (e.g. wrong signs of quantities, errors with units, incorrect reference points, etc.), not just any arbitrary numbers.
5. “All the above” or “None of the above”, while they can - sporadically - be used, will not count towards the required four options per question.
6. Clarity and plausibility of the question statement and the answer options are important.
7. No ambiguity is allowed in the question or in the answer options formulations.
8. No answer option will be obviously wrong/unreasonable/not feasible/trivial/outside normal limits/illogical, etc.
9. Answer options must be mutually exclusive.
10. Questions will be free from grammatical and spelling errors.
11. If answer options can be ordered, then they should be ordered.
12. Questions with negative formulations should be avoided.
13. For questions requiring numerical calculations, complete solution of the questions must be provided.
14. Reasoning why the wrong answer(s) are wrong must be given.
15. An approximate timing for each question must be given.
16. Questions will have an attached “difficulty” level: 1, 2, or 3. The questions will be divided equally between the 3 levels.

Level 1 will ask about the basics of the respective topic.

Level 2 will be about performing routine and emergency operations.

Level 3 will deal with scenarios that require judgment, experience and best practices while maintaining safety.

2.3 Tasks, Activities, Deliverables and Milestones (Work Breakdown Structure)

The questions and answers will be delivered on the dates indicated below. The questions will be prepared and delivered in a top-down order appearing in the tables of Appendix A.

A question is defined as: The question, its multiple answer options, and the identification of the correct answer, its numerical solution, if any. Each question will be submitted in the format given in Appendix 2B.

Definitions as per the table below:

ML = Management Level

OL = Operational Level

SL = Support Level

Task	Tasks/Activities	Deliverable	Weeks from Contract Award Date
0	Contract awarded, contractor begins work		
	Participate in a teleconference with the Transport Canada Representative to discuss coordination.	Attend teleconference	1
1	<ul style="list-style-type: none"> • Questions to be delivered 	ML: 100	6
2	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	ML: 100	10
3	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	ML: 100	14
4	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	ML: 20 OL: 80	18
5	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	OL: 100	22
6	<ul style="list-style-type: none"> • Contractor responds to last revisions • All questions delivered 	--	24

2.4 Specifications and Standards

The Contractor will provide the questions and answer options in Microsoft Excel ***and*** Microsoft Word, in versions no earlier than 2013. The specific format of the questions and answer options, is given in Appendix 2B.

2.5 Method and Source of Acceptance

All deliverables and services rendered under any contract are subject to approval by the Transport Canada Representative. Should any deliverables not be to the satisfaction of the Representative (or any other Transport Canada supervisor), Transport Canada shall have the right to reject it or require corrections before payment will be authorized. Payment equivalent to task will only be paid to the Contractor once the Transport Canada Representative has reviewed and approved the questions and answer options submitted by the Contractor.

2.6 Reporting Requirements

All written deliverables and final report must be submitted to the Project Authority in printable format and in electronic format (MS-Word format, Adobe PDF format,

PowerPoint format, and MS-Excel format for any tables – compatible with Microsoft Office 2013 and Adobe Reader XI).

A full listing of all reference materials, bibliographies and data sources consulted are to be provided by the resource, including links to online source material (where applicable).

All deliverables shall be prepared in English.

Any publication or distribution of the final report will be determined by Transport Canada, which will be responsible for any translation, printing and distribution costs.

2.7 Ownership of Intellectual Property

Canada to Own Intellectual Property Rights, apply and form part of the Contract.

PWGSC has determined that any intellectual property arising from the performance of the Work under the Contract will vest in Canada, on the following grounds:

- 6.4.1 Where the main purposes of the Crown procurement contract or of the deliverables contracted for is to generate knowledge and information for public dissemination.

3. Security and Confidentiality

3.1 Contractor's Obligations, Security and Confidentiality

1. Transport Canada will issue to the Contractor protected USB keys to perform the work. These keys will be used by the Contractor to save the developed questions and answers and to submit them to Transport Canada for evaluation. All shipping costs, if any, by the Contractor to Transport Canada will be at the Contractor's expense.
2. It is the responsibility of the Contractor to ensure that all documents containing, or pertaining to, the questions and answers are saved on the Transport Canada password protected USB keys, and to ensure that the USB keys and documents are always kept in a secure location;
3. No copies of the questions and/or answers will be kept in any form or format on any storage medium after the end of the contract;
4. No hard copies of the questions and answers bank will exist at any time;
5. All documents and proprietary information is confidential, during and after the end of the Contract;
6. All documentation, electronic or otherwise, in the Contractor's possession will be deleted or destroyed, as the case may be, after delivery and acceptance by Transport Canada;
7. The Contractor must meet all tasks, deliverables and milestones as identified in Section 2.3;
8. The Contractor must return all material belonging to Transport Canada to the Transport Canada Representative upon completion of the Contract;

9. The Contractor will attend meetings with the Transport Canada Representative on site or by teleconference and provide briefings, if requested; and
10. The Contractor will provide updates on the progress every 15 days from the start of the Contract and/or as frequently as needed. Transport Canada aims to have an open dialogue with the Contractor to facilitate the development of the questions and answers.

In accordance to Appendix "D-1", attached hereto and entitled "Confidentiality" supplementary clause.

3.2 Location of Work, Work Site and Delivery Point

The work will be performed at the Contractor's place of work. The Contractor will not have access to any Transport Canada offices or work computers.

3.3 Travel

There is no planned travel for this Contract. If the Contractor requests to travel, all related expenses will be paid by the Contractor.

3.4 Project Length

The Contractor must complete the work, no later than 24 weeks after contract award date.

4. Replacement of Personnel

- 4.1 If specific individuals are identified in the Contract to perform the Work, the Contractor must provide the services of those individuals unless the Contractor is unable to do so for reasons beyond its control.
- 4.2 If the Contractor is unable to provide the services of any specific individual identified in the Contract, it must provide a replacement with similar qualifications and experience. The replacement must meet the criteria used in the selection of the Contractor and be acceptable to Canada. The Contractor must, as soon as possible, give notice to the Contracting Authority of the reason for replacing the individual and provide:
 - (a) the name, qualifications and experience of the proposed replacement; and
 - (b) proof that the proposed replacement has the required security clearance granted by Canada, if applicable.
- 4.3 The Contractor must not, in any event, allow performance of the Work by unauthorized replacement persons. The Contracting Authority may order that a replacement stop performing the Work. In such a case, the Contractor must immediately comply with the order and secure a further replacement. The fact that the Contracting Authority does not order that a replacement stop performing the Work does not relieve the Contractor from its responsibility to meet the requirements of the Contract.

5. Departmental Representatives

Contracting Authority

Trevor Hardman
Acting Team Leader, Contracting and Procurement
Procurement/Contracting Directorate
330 Sparks St., Main floor
Ottawa, ON K1A 0N5
204 296-2803
Email: trevor.hardman@tc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

Project Authority (at contract award)

Contact name:
Phone:
Fax:
Email:

The Project authorities are the representatives of the department for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority; however, the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

Contractor Representative

(at contract award)

Contact Name:
Telephone:
Facsimile:
Email:

Appendix 2A

Electro-technology and Automation Questions for the Management Level according to Subtopics

Main Subject	Topics	Subject Code	Sections in Model Course 7.02	Pages in Model Course	Number of Questions
M-ELC Electro-technology and Automation	M-ELC-1 Electrotechnology	M-ELC-1.1	1.3.5.1	62-63	5
		M-ELC-1.2	2.1.1.1 - 2.1.1.2	97 - 98	44
		M-ELC-1.3	2.1.3 - 2.1.4	110 - 112	66
		M-ELC-1.4	2.2.1 - 2.2.2	105 - 106	86
	M-ELC-2 Automation, Control and Instrumentation	M-ELC-2.1	2.1.1.3	98 - 99	44
		M-ELC-2.2	2.1.2	99-101	29
		M-ELC-2.3	2.1.5	103	11
		M-ELC-2.4	2.2.3.1	107	13
		M-ELC-2.5	2.2.4	107 - 108	22

320

Electro-Technology and Automation Questions for the Operational Level according to Subtopics

Main Subject	Topics	Subject Code	Sections in Model Course 7.04	Pages in Model Course	Number of Questions
O-ELC Electrotechnology and Automation	O-ELC-1 Electrotechnology	O-ELC-1.1	2.1.1	91 - 100	83
		O-ELC-1.2	2.2.1	108	6
		O-ELC-1.3	2.2.3 - 2.2.6	110 - 114	31
	O-ELC-2 Automation, Control and Instrumentation	O-ELC-2.1	2.1.2	100 - 102	23
		O-ELC-2.2	2.1.3	102 - 106	37

180

Appendix 2B

Sample Question Format*

Level	Management / Operational		
Subject	Electro-technology	Subject Code	M-ELC-1
Sub-subject	Circuits	Sub-subject Code	M-ELC-1.1
Serial Number in Topic	6/19	Serial Number in Sub-topic	M-ELC-1.1.6

Estimated Level of Difficulty	1, 2, or 3
Estimated time to answer (min)	xx

Question Statement:			
Option 1	Statement of Option 1		Why is this option wrong
Option 2	Statement of Option 2		Why is this option wrong
Option 3	Statement of Option 3	√ (correct option)	
Option 4	Statement of Option 4		Why is this option wrong
Option 5, if used	Option 5 can only be "None of the above" or "All of the above"		Why is this option wrong

Complete solution (e.g. for problems including numerical calculations):

*Questions will be submitted in digital form in two formats, Word and Excel, the Excel format will be provided at the start of work.

Naval Architecture and Ship Construction (Part 3) - Statement of Work

1. Scope

1.1 Title

Development of Examination questions and answers for assessment of knowledge of Marine Engineer Officers in the subject of **Naval Architecture and Ship Construction**.

1.2 Introduction

The *Marine Personnel Regulations* requires the evaluation of qualifications before an applicant can obtain a Certificate of Competency as an Engineer Officer.

Part of the Minister of Transport's mandate is to determine the manner by which the qualifications of applicants are assessed and to ensure that the process is impartial.

1.3 Objectives of the Work

The objective of this project is to develop, in English, a bank of **160** questions and related multiple answer options, on the subject of **Naval Architecture and Ship Construction** to be used in the evaluation of applicants for various levels of marine engineers' certificates issued pursuant to the *Marine Personnel Regulations*.

2. Requirements

2.1 Requirements in Relation to Deliverables

The Contractor will prepare, in English, a bank of multiple-choice exam questions and their respective answer options in English that will be submitted, sorted according to subject and level, and in the numbers given in the table below.

The questions will be of the multiple-choice type with 4 choices per question. "All of the above" or "None of the above", if used, will always be the 5th option.

The questions must cover the knowledge described in the Model Courses recommended by the International Maritime Organization (IMO). The respective Model Course and the total number of questions for each level are given in the following table.

Level	Model Course	Total Number of Questions
Management	Model Course 7.02: "Chief Engineer Officer and Second engineer Officer, 2014 Edition	110
Operational	Model Course 7.04: "Officer in Charge of an Engineering Watch", 2014 Edition	50
	Total	160

The detailed number of questions for each subtopic is given in the tables in Appendix 3A.

2.2 Quality assurance of multiple-choice questions

All submitted questions will be subject to quality control check according to the following criteria:

1. Questions on a specific subtopic must cover all areas of that subtopic.
2. The questions must test the understanding of the candidate. Questions that rely solely on memorization (of numbers, data, etc.) are not acceptable.
3. The answer options must be formulated so that they all “seem” to be the correct answer.
4. In problems solved numerically, the “wrong” answers should correspond to “typical” errors in the solution steps (e.g. wrong signs of quantities, errors with units, incorrect reference points, etc.), not just any arbitrary numbers.
5. “All the above” or “None of the above”, while they can - sporadically - be used, will not count towards the required four options per question.
6. Clarity and plausibility of the question statement and the answer options are important.
7. No ambiguity is allowed in the question or in the answer options formulations.
8. No answer option will be obviously wrong/unreasonable/not feasible/trivial/outside normal limits/illogical, etc.
9. Answer options must be mutually exclusive.
10. Questions will be free from grammatical and spelling errors.
11. If answer options can be ordered, then they should be ordered.
12. Questions with negative formulations should be avoided.
13. For questions requiring numerical calculations, complete solution of the questions must be provided.
14. Reasoning why the wrong answer(s) are wrong must be given.
15. An approximate timing for each question must be given.
16. Questions will have an attached “difficulty” level: 1, 2, or 3. The questions will be divided equally between the 3 levels.

Level 1 will ask about the basics of the respective topic.

Level 2 will be about performing routine and emergency operations.

Level 3 will deal with scenarios that require judgment, experience and best practices while maintaining safety.

2.3 Tasks, Activities, Deliverables and Milestones (Work Breakdown Structure)

The questions and answers will be delivered on the dates indicated below. The questions will be prepared and delivered in a top-down order appearing in the tables of Appendix 3A.

A question is defined as: The question, its multiple answer options, and the identification of the correct answer, its numerical solution, if any. Each question will be submitted in the format given in Appendix 3B.

Definitions as per the table below:

ML = Management Level

OL = Operational Level

SL = Support Level

Task	Tasks/Activities	Deliverable	Weeks from Contract Award Date
0	Contract awarded, Contractor begins work		
	Participate in a teleconference with the Transport Canada Representative to discuss coordination.	Attend teleconference	1
1	<ul style="list-style-type: none"> • Questions to be delivered 	ML: 50	6
2	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	ML: 50	10
3	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	ML: 10 OL: 40	14
4	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	OL: 10	19
5	<ul style="list-style-type: none"> • Contractor responds to last revisions • All questions delivered 	--	21

2.4 Specifications and Standards

The Contractor will produce the questions and answer options in Microsoft Excel **and** Microsoft Word, in versions no earlier than 2013. The specific format of the questions and answer options, is given in Appendix 3B.

2.5 Method and Source of Acceptance

All deliverables and services rendered under any contract are subject to approval by the Transport Canada Representative. Should any deliverables not be to the satisfaction of the Representative (or any other Transport Canada supervisor), Transport Canada shall have the right to reject it or require corrections before payment will be authorized. Payment equivalent to task will only be paid to the Contractor once the Transport Canada Representative has reviewed and approved the questions and answer options submitted by the Contractor.

2.6 Reporting Requirements

All written deliverables and final report must be submitted to the Project Authority in printable format and in electronic format (MS-Word format, Adobe PDF format, PowerPoint format, and MS-Excel format for any tables – compatible with Microsoft Office 2013 and Adobe Reader XI).

A full listing of all reference materials, bibliographies and data sources consulted are to be provided by the resource, including links to online source material (where applicable).

All deliverables shall be prepared in English.

Any publication or distribution of the final report will be determined by Transport Canada, which will be responsible for any translation, printing and distribution costs.

2.7 Ownership of Intellectual Property

Canada to Own Intellectual Property Rights, apply and form part of the Contract.

PWGSC has determined that any intellectual property arising from the performance of the Work under the Contract will vest in Canada, on the following grounds:

- 6.4.1 Where the main purposes of the Crown procurement contract or of the deliverables contracted for is to generate knowledge and information for public dissemination.

3. Security and Confidentiality

3.1 Contractor's Obligations, Security and Confidentiality

1. Transport Canada will issue to the Contractor protected USB keys to perform the work. These keys will be used by the Contractor to save the developed questions and answers and to submit them to Transport Canada for evaluation. All shipping costs, if any, by the Contractor to Transport Canada will be at the Contractor's expense.
2. It is the responsibility of the Contractor to ensure that all documents containing, or pertaining to, the questions and answers are saved on the Transport Canada password protected USB keys, and to ensure that the USB keys and documents are always kept in a secure location;
3. No copies of the questions and/or answers will be kept in any form or format on any storage medium after the end of the contract;
4. No hard copies of the questions and answers bank will exist at any time;
5. All documents and proprietary information is confidential, during and after the end of the Contract;
6. All documentation, electronic or otherwise, in the Contractor's possession will be deleted or destroyed, as the case may be, after delivery and acceptance by Transport Canada;
7. The Contractor must meet all tasks, deliverables and milestones as identified in Section 2.3;
8. The Contractor must return all material belonging to Transport Canada to the Transport Canada Representative upon completion of the Contract;
9. The Contractor will attend meetings with the Transport Canada Representative on site or by teleconference and provide briefings, if requested; and
10. The Contractor will provide updates on the progress every 15 days from the start of the Contract and/or as frequently as needed. Transport Canada aims to have an open dialogue with the Contractor to facilitate the development of the questions and answers.

In accordance to Appendix “D-1”, attached hereto and entitled “Confidentiality” supplementary clause.

3.2 Location of Work, Work Site and Delivery Point

The work will be performed at the Contractor’s place of work. The Contractor will not have access to any Transport Canada offices or work computers.

3.3 Travel

There is no planned travel for this Contract. If the Contractor requests to travel, all related expenses will be paid by the Contractor.

3.4 Project Length

The Contractor must complete the work, no later than 21 weeks after contract award date.

4. Replacement of Personnel

- 4.1** If specific individuals are identified in the Contract to perform the Work, the Contractor must provide the services of those individuals unless the Contractor is unable to do so for reasons beyond its control.
- 4.2** If the Contractor is unable to provide the services of any specific individual identified in the Contract, it must provide a replacement with similar qualifications and experience. The replacement must meet the criteria used in the selection of the Contractor and be acceptable to Canada. The Contractor must, as soon as possible, give notice to the Contracting Authority of the reason for replacing the individual and provide:
- (a)** the name, qualifications and experience of the proposed replacement; and
 - (b)** proof that the proposed replacement has the required security clearance granted by Canada, if applicable.
- 4.3** The Contractor must not, in any event, allow performance of the Work by unauthorized replacement persons. The Contracting Authority may order that a replacement stop performing the Work. In such a case, the Contractor must immediately comply with the order and secure a further replacement. The fact that the Contracting Authority does not order that a replacement stop performing the Work does not relieve the Contractor from its responsibility to meet the requirements of the Contract.

5.0 Departmental Representatives

Contracting Authority

Trevor Hardman
Acting Team Leader, Contracting and Procurement
Procurement/Contracting Directorate
330 Sparks St., Main floor
Ottawa, ON K1A 0N5
204 296-2803
Email: trevor.hardman@tc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

Project Authority *(at contract award)*

Contact name:
Phone:
Fax:
Email:

The Project authorities are the representatives of the department for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority; however, the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

Contractor Representative
(at contract award)

Contact Name:
Telephone:
Facsimile:
Email:

Appendix 3A

Naval Architecture and Ship Construction Questions for the Management Level according to Subtopics

Main Subject	Topics	Subject Code	Sections in Model Course 7.02	Pages in Model Course	Number of Questions
M-NAR Naval Architecture, Ship Construction, and Propulsion	7.1 Naval Architecture and Ship Propulsion	M-NAR-1.1	4.1.1.7 - 4.1.1.8	158 - 168	48
		M-NAR-1.2	4.1.2.1 - 4.1.2.2	159 - 173	11
		M-NAR-1.3	4.1.3.1	173	2
		M-NAR-1.4	4.4.2	207	4
	7.2 Ship Construction	M-NAR-2.1	4.1.1.1 - 4.1.1.6	154 - 158	43
		M-NAR-2.2	4.1.1.9	168	2

110

Naval Architecture and Ship Construction Questions for the Operational Level according to Subtopics

Main Subject	Topics	Subject Code	Sections in Model Course 7.04	Pages in Model Course	Number of Questions
O-NAR Naval Architecture, Ship Construction	O-NAR-1 Naval Architecture	O-NAR-1	4.2.1	167	21
	O-CON-2 Ship Construction	O-CON-1	4.2.2	168	29

50

Appendix 3B

Sample Question Format*

Level	Management / Operational		
Subject	Naval Architecture	Subject Code	O-NAR
Sub-subject	Stability	Sub-subject Code	O-NAR-2
Serial Number in Topic	7/35	Serial Number in Sub-topic	O-NAR-2-3

Estimated Level of Difficulty	1, 2, or 3
Estimated time to answer (min)	xx

Question Statement:			
Option 1	Statement of Option 1		Why is this option wrong
Option 2	Statement of Option 2		Why is this option wrong
Option 3	Statement of Option 3	√ (correct option)	
Option 4	Statement of Option 4		Why is this option wrong
Option 5, if used	Option 5 can only be "None of the above" or "All of the above"		Why is this option wrong

Complete solution (e.g. for problems including numerical calculations):

*Questions will be submitted in digital form in two formats, Word and Excel, the Excel format will be provided at the start of work.

Applied Engineering Science (Part 4) - Statement of Work

1. Scope

1.1 Title

Development of Examination questions and answers for assessment of knowledge of Marine Engineer Officers in the subject of **Applied Engineering Science**.

1.2 Introduction

The *Marine Personnel Regulations* requires the evaluation of qualifications before an applicant can obtain a Certificate of Competency as an Engineer Officer.

Part of the Minister of Transport's mandate is to determine the manner by which the qualifications of applicants are assessed and to ensure that the process is impartial.

1.3 Objectives of the Work

The objective of this project is to develop, in English, a bank of **240** questions and related multiple answer options, on the subject of **Applied Engineering Science** to be used in the evaluation of applicants for various levels of marine engineers' certificates issued pursuant to the *Marine Personnel Regulations*.

2. Requirements

2.1 Requirements in Relation to Deliverables

The Contractor will prepare, in English, a bank of multiple-choice exam questions and their respective answer options in English that will be submitted, sorted according to level and subject, in the numbers given in the table below.

The questions will be of the multiple-choice type with 4 choices per question. "All of the above" or "None of the above", if used, will always be the 5th option.

The questions must cover the knowledge described in the Model Courses recommended by the International Maritime Organization (IMO). The respective Model Course and the total number of questions for each level are given in the following table.

Level	Model Course	Total Number of Questions
Management	Model Course 7.02: "Chief Engineer Officer and Second engineer Officer, 2014 Edition	120
Operational	Model Course 7.04: "Officer in Charge of an Engineering Watch", 2014 Edition	120

	Total	240
--	-------	------------

The detailed number of questions for each subtopic is given in the tables in Appendix 4A.

2.2 Quality assurance of multiple-choice questions

All submitted questions will be subject to quality control check according to the following criteria:

1. Questions on a specific subtopic must cover all areas of that subtopic.
2. The questions must test the understanding of the candidate. Questions that rely solely on memorization (of numbers, data, etc.) are not acceptable.
3. The answer options must be formulated so that they all “seem” to be the correct answer.
4. In problems solved numerically, the “wrong” answers should correspond to “typical” errors in the solution steps (e.g. wrong signs of quantities, errors with units, incorrect reference points, etc.), not just any arbitrary numbers.
5. “All the above” or “None of the above”, while they can - sporadically - be used, will not count towards the required four options per question.
6. Clarity and plausibility of the question statement and the answer options are important.
7. No ambiguity is allowed in the question or in the answer options formulations.
8. No answer option will be obviously wrong/unreasonable/not feasible/trivial/outside normal limits/illogical, etc.
9. Answer options must be mutually exclusive.
10. Questions will be free from grammatical and spelling errors.
11. If answer options can be ordered, then they should be ordered.
12. Questions with negative formulations should be avoided.
13. For questions requiring numerical calculations, complete solution of the questions must be provided.
14. Reasoning why the wrong answer(s) are wrong must be given.
15. An approximate timing for each question must be given.
16. Questions will have an attached “difficulty” level: 1, 2, or 3. The questions will be divided equally between the 3 levels.

Level 1 will ask about the basics of the respective topic.

Level 2 will be about performing routine and emergency operations.

Level 3 will deal with scenarios that require judgment, experience and best practices while maintaining safety.

2.3 Tasks, Activities, Deliverables and Milestones (Work Breakdown Structure)

The questions and answers will be delivered on the dates indicated below. The questions will be prepared and delivered in a top-down order appearing in the tables of Appendix 4A.

A question is defined as: The question, its multiple answer options, and the identification of the correct answer, its numerical solution, if any. Each question will be submitted in the format given in Appendix 4B.

Definitions as per the table below:

ML = Management Level

OL = Operational Level

SL = Support Level

Task	Tasks/Activities	Deliverable	Weeks from Contract Award Date
0	Contract awarded, Contractor begins work		
	Participate in a teleconference with the Transport Canada Representative to discuss coordination.	Attend teleconference	1
1	<ul style="list-style-type: none"> • Questions to be delivered 	ML: 60	6
2	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	ML: 60	10
3	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	OL: 60	14
4	<ul style="list-style-type: none"> • Questions to be delivered • TC Representative sends revisions 	OL: 60	20
5	<ul style="list-style-type: none"> • Contractor responds to last revisions • All questions delivered 	--	22

2.4 Specifications and Standards

The Contractor will provide the questions and answer options in Microsoft Excel and Microsoft Word, in versions no earlier than 2013. The specific format of the questions and answer options, is given in Appendix 4B.

2.5 Method and Source of Acceptance

All deliverables and services rendered under any contract are subject to approval by the Transport Canada Representative. Should any deliverables not be to the satisfaction of the Representative (or any other Transport Canada supervisor), Transport Canada shall have the right to reject it or require corrections before payment will be authorized. Payment equivalent to task will only be paid to the Contractor once the Transport Canada Representative has reviewed and approved the questions and answer options submitted by the Contractor.

2.6 Reporting Requirements

All written deliverables and final report must be submitted to the Project Authority in printable format and in electronic format (MS-Word format, Adobe PDF format, PowerPoint format, and MS-Excel format for any tables – compatible with Microsoft Office 2013 and Adobe Reader XI).

A full listing of all reference materials, bibliographies and data sources consulted are to be provided by the resource, including links to online source material (where applicable).

All deliverables shall be prepared in English.

Any publication or distribution of the final report will be determined by Transport Canada, which will be responsible for any translation, printing and distribution costs.

2.7 Ownership of Intellectual Property

Canada to Own Intellectual Property Rights, apply and form part of the Contract.

PWGSC has determined that any intellectual property arising from the performance of the Work under the Contract will vest in Canada, on the following grounds:

- 6.4.1 Where the main purposes of the Crown procurement contract or of the deliverables contracted for is to generate knowledge and information for public dissemination.

3. Security and Confidentiality

3.1 Contractor's Obligations, Security and Confidentiality

1. Transport Canada will issue to the Contractor protected USB keys to perform the work. These keys will be used by the Contractor to save the developed questions and answers and to submit them to Transport Canada for evaluation. All shipping costs, if any, by the Contractor to Transport Canada will be at the Contractor's expense.
2. It is the responsibility of the Contractor to ensure that all documents containing, or pertaining to, the questions and answers are saved on the Transport Canada password protected USB keys, and to ensure that the USB keys and documents are always kept in a secure location;
3. No copies of the questions and/or answers will be kept in any form or format on any storage medium after the end of the contract;
4. No hard copies of the questions and answers bank will exist at any time;
5. All documents and proprietary information is confidential, during and after the end of the Contract;
6. All documentation, electronic or otherwise, in the Contractor's possession will be deleted or destroyed, as the case may be, after delivery and acceptance by Transport Canada;
7. The Contractor must meet all tasks, deliverables and milestones as identified in Section 2.3;
8. The Contractor must return all material belonging to Transport Canada to the Transport Canada Representative upon completion of the Contract;
9. The Contractor will attend meetings with the Transport Canada Representative on site or by teleconference and provide briefings, if requested; and
10. The Contractor will provide updates on the progress every 15 days from the start of the Contract and/or as frequently as needed. Transport Canada aims to have an open dialogue with the Contractor to facilitate the development of the questions and answers.

In accordance to Appendix "D-1", attached hereto and entitled "Confidentiality" supplementary clause.

3.2 Location of Work, Work Site and Delivery Point

The work will be performed at the Contractor's place of work. The Contractor will not have access to any Transport Canada offices or work computers.

3.3 Travel

There is no planned travel for this Contract. If the Contractor requests to travel, all related expenses will be paid by the Contractor.

3.4 Project Length

The Contractor must complete the work, no later than 22 weeks after contract award date.

4. Replacement of Personnel

4.1 If specific individuals are identified in the Contract to perform the Work, the Contractor must provide the services of those individuals unless the Contractor is unable to do so for reasons beyond its control.

4.2 If the Contractor is unable to provide the services of any specific individual identified in the Contract, it must provide a replacement with similar qualifications and experience. The replacement must meet the criteria used in the selection of the Contractor and be acceptable to Canada. The Contractor must, as soon as possible, give notice to the Contracting Authority of the reason for replacing the individual and provide:

- (a)** the name, qualifications and experience of the proposed replacement; and
- (b)** proof that the proposed replacement has the required security clearance granted by Canada, if applicable.

4.3 The Contractor must not, in any event, allow performance of the Work by unauthorized replacement persons. The Contracting Authority may order that a replacement stop performing the Work. In such a case, the Contractor must immediately comply with the order and secure a further replacement. The fact that the Contracting Authority does not order that a replacement stop performing the Work does not relieve the Contractor from its responsibility to meet the requirements of the Contract.

5. Departmental Representatives

Contracting Authority

Trevor Hardman
Acting Team Leader, Contracting and Procurement
Procurement/Contracting Directorate
330 Sparks St., Main floor
Ottawa, ON K1A 0N5
204 296-2803
Email: trevor.hardman@tc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

Project Authority *(at contract award)*

Contact name:

Phone:

Fax:

Email:

The Project authorities are the representatives of the department for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority; however, the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

Contractor Representative

(at contract award)

Contact Name:

Telephone:

Facsimile:

Email:

Appendix 4A

Applied Engineering Science Questions for the Management Level according to Subtopics

Main Subject	Topics	Subject Code	Sections in Model Course 7.02	Pages in Model Course	Number of Questions
M-APP Applied Engineering Science	M-THH.1 Applied Thermodynamics	M-THR-1	1.2.1	45 - 46	55
		M-THR-2	1.2.4	49	20
	5.1 Applied Mechanics	M-APM-1	1.2.2	46 - 47	45

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Applied Engineering Science Questions for the Operational Level according to Subtopics

Main Subject	Topics	Subject Code	Sections in Model Course 7.04	Pages in Model Course	Number of Questions
O-APP Applied Engineering Science	O-APP-1 Applied Thermodynamics	O-THR-1	Appendix 3	250 - 253	41
		O-THR-2	1.4.1.1.1	34	9
		O-THR-3	1.4.1.1.2	35	7
		O-THR-4	1.4.1.2.1	39	9
	O-APP-2 Applied Mechanics	O-APM-1	Appendix 1	243 - 245	23
		O-APM-2	3.1.3.1	132	2
		O-APM-3	3.1.3.2	132 - 133	2
		O-APM-4	Appendix 4	254 - 255	27

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Appendix 4B

Sample Question Format*

Level	Management / Operational		
Subject	Statics	Subject Code	O-APP
Sub-subject	Friction	Sub-subject Code	O-APP-APM
Serial Number in Topic	7/35	Serial Number in Sub-topic	O-APP-APM -2

Estimated Level of Difficulty	1, 2, or 3
Estimated time to answer (min)	xx

Question Statement:			
Option 1	Statement of Option 1		Why is this option wrong
Option 2	Statement of Option 2		Why is this option wrong
Option 3	Statement of Option 3	√ (correct option)	
Option 4	Statement of Option 4		Why is this option wrong
Option 5, if used	Option 5 can only be "None of the above" or "All of the above"		Why is this option wrong

Complete solution (e.g. for problems including numerical calculations):

*Questions will be submitted in digital form in two formats, Word and Excel, the Excel format will be provided at the start of work.

EVALUATION PROCEDURES

Bids will be assessed in accordance with the requirements of the bid solicitation including the technical and financial evaluation criteria.

An evaluation team composed of representatives of Canada will evaluate the bids.

Up to four (4) contracts may result of this request for services. Each of the four parts of the statement of work will be evaluated individually. See below for the four separate sets of evaluation criteria.

BASIS OF SELECTION - Engineering Knowledge (Part 1)

Mandatory Technical Criteria

The mandatory requirements below will be evaluated on a pass/fail (meets/does not meet) basis. Proposals that do not meet the requirements will be deemed non-responsive and given no further consideration.

Proposals **MUST** give evidence of the following compliance to the mandatory requirements, and present supporting documentation.

All Bidders are advised that only listing experience without providing any supporting data to describe when, where and how such experience was obtained will not be considered to be “demonstrated” for the purpose of the evaluation. All professional experience must be fully documented and substantiated in the proposal.

It is the responsibility of the Bidder to ensure sufficient details provided to enable a full evaluation.

Mandatory Technical Criteria (MT)			
For the purpose of the mandatory technical criteria specified below, the experience of the Bidder will be considered.			
Bidder means the person or entity (or, in the case of a joint venture, the persons or entities) submitting a bid to perform a contract for goods, services or both. It does not include the parent, subsidiaries or other affiliates of the Bidder, or its subcontractors.			
No	Mandatory Criteria	Met / Not Met	Cross Reference in Proposal
M1	<p>The Bidder must submit *detailed resumes of proposed resource(s), demonstrating that he/she meets the minimum mandatory requirements (educational, professional designations and work experience) for applicable resource as described in the Statement of Work.</p> <p>*Detailed resume defined as:</p> <ul style="list-style-type: none"> • Name of the resource; • Chronological work experience relevant to the provision of services described within the Terms of Reference (indicated in years and months); • Experience working as a Chief or Second Engineer on vessels of at least 3 000 kW propulsion power; • Experience teaching marine engineering subjects relevant to the competencies of Tables 		

	<p>A-III/1 and A-III/2 of the STCW Code at an institution approved by the relevant Maritime Administration to deliver STCW compliant training;</p> <ul style="list-style-type: none"> • Education and professional attainment in relation to marine engineering. All formal training listed in chronological order by course/program title and the duration (Days/months/years) with start and end dates; and • Where, when and how the experience was obtained. <p>It is the responsibility of the Bidder to ensure that the proposed resource's resume is sufficiently detailed to enable a full evaluation.</p> <p>Sailing experience, while holding an STCW Reg. III/2 Certificate of Competency at the Chief or Second Engineer Level, for at least 5 years on Canadian or foreign vessels having propulsion power of 3,000 kW or more in the function of Chief or Second Engineer.</p>		
M2	The Bidder must demonstrate teaching experience in marine engineering subjects as defined above at the post-secondary level of at least 5 years in the last 10 years.		

RATED REQUIREMENTS:

Technical Rating

Bids which meet all the mandatory technical criteria will be evaluated and scored as specified below.

Bids which fail to obtain the required minimum number of points specified will be declared non-responsive. Each point rated technical criterion should be addressed separately.

We advise tenderers to respond in the order that follows and in detail, to allow for a complete evaluation. The evaluation will be based solely on the information provided in the proposal. The review team may verify the information provided and obtain clarification.

Please write beside each of the criteria the relevant page number(s) from your proposal which addresses the requirement identified in the criteria.

The following will be used to evaluate the Point Rated Technical Criteria.

Rated Requirement	Maximum points	Cross Reference to Proposal
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<p>R1</p>	<p>The Bidder's proposed resource shall have sailed for 10 years or more as chief engineer while holding STCW Reg. III/2 First or Second Class Engineer Certificate of Competence.</p> <p>Scale: 10 points for 10 years' experience and 1 points for each year of sea service above 10 to a maximum of 20 points.</p>	<p>Up to a max of /20</p>	
<p>R2</p>	<p>The Bidder's proposed resource shall demonstrate that they have experience, or have completed related training, in the design, application, and evaluation of objective (multiple-choice) exams.</p> <p>An example of related training would be training in teaching or instructional techniques, or teaching and instruction of adults, recognized by a provincial education authority or equivalent authority.</p> <p>Scale: 6 points for having completed training, 0.5 point for each year of experience to a maximum of 10 points.</p>	<p>Up to a max of /10</p>	
<p>R3</p>	<p>The Bidder's proposed resource shall demonstrate having contributed to the development of curricula, programs and/or examinations related to the engineer officers' education, in compliance with the Standards of Training, Certification and Watchkeeping for Seafarers (STCW) Convention and Model Courses for engineer officers.</p> <p>Scale: 6 points for demonstrating having contributed to the development of curricula and programs and 0.5 points for each year developing examinations to a maximum of 10 points.</p>	<p>Up to a max of /10</p>	
<p>R4</p>	<p>The Bidder's proposed resource shall submit a total of 20 sample questions (divided equally between levels), in the following subjects: General Engineering Knowledge (10 questions) Motor Engineering Knowledge (5 questions) Steam Engineering Knowledge (5 questions)</p> <p>Scale: 2 points for each question meeting quality assurance criteria of section 2.2 Quality Assurance of Multiple-choice Questions to a maximum of 40 points.</p>	<p>Up to a max of /40</p>	
<p>R5</p>	<p>The Bidder's submitted bid document demonstrates a thorough understanding of the requirements, a plan of action to meet the requirements and a reasonable time line in which to meet the requirements.</p> <p>Scale:</p>	<p>Up to a max of /5</p>	

<p>0 = Inaccurate understanding demonstrated, displaying misinterpretation of key facts, concepts, and dynamics.</p> <p>2 = Poor understanding demonstrated, displaying an inconsistent grasp of key facts, concepts, and dynamics, and lacking precision.</p> <p>3 = Superficial understanding demonstrated, displaying a basic, general, consistent grasp of key facts, concepts, and dynamics.</p> <p>4 = Good understanding demonstrated, displaying an agile and precise grasp of key facts, concepts, and dynamics.</p> <p>5 = Excellent understanding demonstrated, displaying an agile, precise, and nuanced grasp of key facts, concepts, and dynamics, as well as value-added insight.</p>		
<p>Total Point Rated Technical Criteria The minimum required score is 60% or 51 points.</p>	<p>/85</p>	

To be eligible for evaluation, tenderers must meet to the stated requirements.

It is understood by the parties submitting proposals that, to qualify, bidders must meet all mandatory requirements as well as the minimum score identified for the point-rated criteria. The contract will be awarded based on a determination of best value taking into account both the technical merit of the proposals and the price evaluations. To arrive at an overall score achieved by a firm, a weighting has been established whereby technical merit will be valued at 60% of the bid and price at 40%.

For the purpose of ranking all technically acceptable proposals, the following ratio will factor the technical and the price component to establish a total percentage score: Technical: 60%, Price: 40%

$$\text{Technical Score} = \frac{\text{Bidder's Points} \times 60\%}{\text{Maximum Points}} \qquad \text{Cost Score} = \frac{\text{Lowest Bid} \times 40\%}{\text{Bidder's Cost}}$$

$$\text{Total Score} = \text{Technical Score} + \text{Cost Score}$$

The proposal will be awarded to the highest total technical and price score.

The responsive bid with the highest combined rating of technical merit and cost will be recommended for award of a contract. In the event that two or more responsive bids have the same combined rating for cost and technical merit, the responsive bid that obtained the highest overall score for all the point-rated technical criteria will be recommended for award of a contract.

BASIS OF SELECTION - Electro-technology and Automation (Part 2)

Mandatory Technical Criteria

The mandatory requirements below will be evaluated on a pass/fail (meets/does not meet) basis. Proposals that do not meet the requirements will be deemed non-responsive and given no further consideration.

Proposals MUST give evidence of the following compliance to the mandatory requirements, and present supporting documentation.

All Bidders are advised that only listing experience without providing any supporting data to describe when, where and how such experience was obtained will not be considered to be “demonstrated” for the purpose of the evaluation. All professional experience must be fully documented and substantiated in the proposal.

It is the responsibility of the Bidder to ensure sufficient details provided to enable a full evaluation.

Mandatory Technical Criteria (MT)			
For the purpose of the mandatory technical criteria specified below, the experience of the Bidder will be considered.			
Bidder means the person or entity (or, in the case of a joint venture, the persons or entities) submitting a bid to perform a contract for goods, services or both. It does not include the parent, subsidiaries or other affiliates of the Bidder, or its subcontractors.			
No	Mandatory Criteria	Met / Not Met	Cross Reference in Proposal
M1	<p>The Bidder must submit *detailed resumes of proposed resource(s), demonstrating that he/she meets the minimum mandatory requirements (educational, professional designations and work experience) for applicable resource as described in the Statement of Work.</p> <p>*Detailed resume defined as:</p> <ul style="list-style-type: none"> • Name of the resource; • Chronological work experience relevant to the provision of services described within the Terms of Reference (indicated in years and months); • Experience teaching in electrical engineering or automation and control, or mechatronics related subjects • Education and professional attainment in relation to electrical engineering, automation and control or mechatronics. All formal training listed in chronological order by course/program title and the duration (Days/months/years) with start and end dates; and • Where, when and how the experience was obtained. <p>It is the responsibility of the Bidder to ensure that the proposed resource’s resume is sufficiently detailed to enable a full evaluation.</p>		

	Bachelor Degree in Electrical Engineering, Automation and Controls, Mechatronics, or equivalent. (Degree must be certified as equivalent to a corresponding Canadian qualification).		
M2	Teaching experience in electrical engineering, automation and controls or mechatronics subjects at the post-secondary level of at least 5 years in the last 10 years.		

RATED REQUIREMENTS:

Technical Rating

Bids which meet all the mandatory technical criteria will be evaluated and scored as specified below.

Bids which fail to obtain the required minimum number of points specified will be declared non-responsive. Each point rated technical criterion should be addressed separately.

We advise tenderers to respond in the order that follows and in detail, to allow for a complete evaluation. The evaluation will be based solely on the information provided in the proposal. The review team may verify the information provided and obtain clarification.

Please write beside each of the criteria the relevant page number(s) from your proposal which addresses the requirement identified in the criteria.

The following will be used to evaluate the Point Rated Technical Criteria.

Rated Requirement		Maximum points	Cross Reference to Proposal
R1	<p>Bidder's proposed resource holds a postgraduate degree in Electrical engineering, mechatronics, or equivalent</p> <p>Scale: 5 points for a master's degree, 10 points for a doctorate and 1 point for each year of experience while holding at least a master's degree</p>	Up to a max of /20	

<p>R2</p>	<p>The Bidder proposed resource shall demonstrate that they have experience, or have completed related training, in the design, application, and evaluation of objective (multiple-choice) exams.</p> <p>An example of related training would be training in teaching or instructional techniques, or teaching and instruction of adults, recognized by a provincial education authority or equivalent authority.</p> <p>Scale: 6 points for having completed training, 0.5 point for each year of experience to a maximum of 10 points.</p>	<p>Up to a max of /10</p>	
<p>R3</p>	<p>The Bidder proposed resource shall demonstrate having contributed to the development of curricula, programs and/or examinations related to the engineer officers' education, in compliance with the Standards of Training, Certification and Watchkeeping for Seafarers (STCW) Convention and Model Courses for engineer officers.</p> <p>Scale: 6 points for demonstrating having contributed to the development of curricula and programs and 0.5 points for each year developing examinations to a maximum of 10 points.</p>	<p>Up to a max of /10</p>	
<p>R4</p>	<p>The Bidder proposed resource shall submit a total of 20 sample questions (divided equally between levels), in the following subjects: Electro-technology (Management Level) (5 Questions) Automation (Management Level) (5 Questions) Electro-technology (Operational Level) (5 Questions) Automation (Operational Level) (5 Questions)</p> <p>Scale: 2 points for each question meeting quality assurance criteria of section 2.2 Quality Assurance of Multiple-choice Questions to a maximum of 40 points.</p>	<p>Up to a max of /40</p>	
<p>R5</p>	<p>The Bidder's submitted bid document demonstrates a thorough understanding of the requirements, a plan of action to meet the requirements and a reasonable time line in which to meet the requirements.</p> <p>Scale: 0 = Inaccurate understanding demonstrated, displaying misinterpretation of key facts, concepts, and dynamics. 2 = Poor understanding demonstrated, displaying an inconsistent grasp of key facts, concepts, and dynamics, and lacking precision. 3 = Superficial understanding demonstrated, displaying a basic, general, consistent grasp of key facts, concepts, and dynamics.</p>	<p>Up to a max of /5</p>	

	<p>4 = Good understanding demonstrated, displaying an agile and precise grasp of key facts, concepts, and dynamics.</p> <p>5 = Excellent understanding demonstrated, displaying an agile, precise, and nuanced grasp of key facts, concepts, and dynamics, as well as value-added insight.</p>		
Total Point Rated Technical Criteria The minimum required score is 60% or 51 points.		/85	

To be eligible for evaluation, tenderers must meet to the stated requirements.

It is understood by the parties submitting proposals that, to qualify, bidders must meet all mandatory requirements as well as the minimum score identified for the point-rated criteria. The contract will be awarded based on a determination of best value taking into account both the technical merit of the proposals and the price evaluations. To arrive at an overall score achieved by a firm, a weighting has been established whereby technical merit will be valued at 60% of the bid and price at 40%.

For the purpose of ranking all technically acceptable proposals, the following ratio will factor the technical and the price component to establish a total percentage score: Technical: 60%, Price: 40%

$$\text{Technical Score} = \frac{\text{Bidder's Points}}{\text{Maximum Points}} \times 60\% \qquad \text{Cost Score} = \frac{\text{Lowest Bid}}{\text{Bidder's Cost}} \times 40\%$$

$$\text{Total Score} = \text{Technical Score} + \text{Cost Score}$$

The proposal will be awarded to the highest total technical and price score.

The responsive bid with the highest combined rating of technical merit and cost will be recommended for award of a contract. In the event that two or more responsive bids have the same combined rating for cost and technical merit, the responsive bid that obtained the highest overall score for all the point-rated technical criteria will be recommended for award of a contract.

BASIS OF SELECTION - Naval Architecture and Ship Construction (Part 3)

Mandatory Technical Criteria

The mandatory requirements below will be evaluated on a pass/fail (meets/does not meet) basis. Proposals that do not meet the requirements will be deemed non-responsive and given no further consideration.

Proposals MUST give evidence of the following compliance to the mandatory requirements, and present supporting documentation.

All Bidders are advised that only listing experience without providing any supporting data to describe when, where and how such experience was obtained will not be considered to be "demonstrated" for the purpose of the evaluation. All professional experience must be fully documented and substantiated in the proposal.

It is the responsibility of the Bidder to ensure sufficient details provided to enable a full evaluation.

Mandatory Technical Criteria (MT)			
For the purpose of the mandatory technical criteria specified below, the experience of the Bidder will be considered.			
Bidder means the person or entity (or, in the case of a joint venture, the persons or entities) submitting a bid to perform a contract for goods, services or both. It does not include the parent, subsidiaries or other affiliates of the Bidder, or its subcontractors.			
No	Mandatory Criteria	Met / Not Met	Cross Reference in Proposal
M1	<p>The Bidder must submit *detailed resumes of proposed resource(s), demonstrating that he/she meets the minimum mandatory requirements (educational, professional designations and work experience) for applicable resource as described in the Statement of Work.</p> <p>*Detailed resume defined as:</p> <ul style="list-style-type: none"> • Name of the resource; • Chronological work experience relevant to the provision of services described within the Terms of Reference (indicated in years and months); • Experience teaching in Naval Architecture • Education and professional attainment in relation to Naval Architecture. All formal training listed in chronological order by course/program title and the duration (Days/months/years) with start and end dates; and • Where, when and how the experience was obtained. <p>It is the responsibility of the Bidder to ensure that the proposed resource's resume is sufficiently detailed to enable a full evaluation.</p> <p>An STCW Reg. III/2 First-class certificate of competency, or Bachelor Degree in Marine Engineering, Naval Architecture, or equivalent.</p>		

	(Degree must be certified as equivalent to a corresponding Canadian qualification).		
M2	Teaching experience in Naval Architecture at the post-secondary level of at least 5 years in the last 10 years.		

RATED REQUIREMENTS:

Technical Rating

Bids which meet all the mandatory technical criteria will be evaluated and scored as specified below.

Bids which fail to obtain the required minimum number of points specified will be declared non-responsive. Each point rated technical criterion should be addressed separately.

We advise tenderers to respond in the order that follows and in detail, to allow for a complete evaluation. The evaluation will be based solely on the information provided in the proposal. The review team may verify the information provided and obtain clarification.

Please write beside each of the criteria the relevant page number(s) from your proposal which addresses the requirement identified in the criteria.

The following will be used to evaluate the Point Rated Technical Criteria.

Rated Requirement		Maximum points	Cross Reference to Proposal
R1	<p>The Bidder proposed resource sailed for 10 years or more as chief engineer while holding STCW Reg. III/2 First or Second Class Engineer Certificate of Competence.</p> <p>Scale: 10 points for 10 years' experience and 1 points for each year of sea service above 10 to a maximum of 20 points.</p>	Up to a max of /20	
R2	<p>The Bidder proposed resource shall demonstrate that they have experience, or have completed related training, in the design, application, and evaluation of objective (multiple-choice) exams.</p> <p>An example of related training would be training in teaching or instructional techniques, or teaching and instruction of adults, recognized by a provincial education authority or equivalent authority.</p> <p>Scale: 6 points for having completed training, 0.5 point for each year of experience to a maximum of 10 points.</p>	Up to a max of /10	

<p>R3</p>	<p>The Bidder proposed resource shall demonstrate having contributed to the development of curricula, programs and/or examinations related to the engineer officers' education, in compliance with the Standards of Training, Certification and Watchkeeping for Seafarers (STCW) Convention and Model Courses for engineer officers.</p> <p>Scale: 6 points for demonstrating having contributed to the development of curricula and programs and 0.5 points for each year developing examinations to a maximum of 10 points.</p>	<p>Up to a max of /10</p>	
<p>R4</p>	<p>The Bidder proposed resource shall submit a total of 20 sample questions (divided equally between levels), in the following subjects: Naval Architecture (Management Level) (5 Questions) Ship Construction (Management Level) (5 Questions) Naval Architecture (5 Operational Level) (5 Questions) Ship Construction (5 Operational Level) (5 Questions)</p> <p>Scale: 2 points for each question meeting quality assurance criteria of section 2.2 Quality Assurance of Multiple-choice Questions to a maximum of 40 points.</p>	<p>Up to a max of /40</p>	
<p>R5</p>	<p>The Bidder's submitted bid document demonstrates a thorough understanding of the requirements, a plan of action to meet the requirements and a reasonable time line in which to meet the requirements.</p> <p>Scale: 0 = Inaccurate understanding demonstrated, displaying misinterpretation of key facts, concepts, and dynamics.</p> <p>2 = Poor understanding demonstrated, displaying an inconsistent grasp of key facts, concepts, and dynamics, and lacking precision.</p> <p>3 = Superficial understanding demonstrated, displaying a basic, general, consistent grasp of key facts, concepts, and dynamics.</p> <p>4 = Good understanding demonstrated, displaying an agile and precise grasp of key facts, concepts, and dynamics.</p> <p>5 = Excellent understanding demonstrated, displaying an agile, precise, and nuanced grasp of key facts, concepts, and dynamics, as well as value-added insight.</p>	<p>Up to a max of /5</p>	
<p>Total Point Rated Technical Criteria</p>		<p>/85</p>	

The minimum required score is 60% or 51 points.		
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To be eligible for evaluation, tenderers must meet to the stated requirements.

It is understood by the parties submitting proposals that, to qualify, bidders must meet all mandatory requirements as well as the minimum score identified for the point-rated criteria. The contract will be awarded based on a determination of best value taking into account both the technical merit of the proposals and the price evaluations. To arrive at an overall score achieved by a firm, a weighting has been established whereby technical merit will be valued at 60% of the bid and price at 40%.

For the purpose of ranking all technically acceptable proposals, the following ratio will factor the technical and the price component to establish a total percentage score: Technical: 60%, Price: 40%

Technical Score = $\frac{\text{Bidder's Points} \times 60\%}{\text{Maximum Points}}$ Cost Score = $\frac{\text{Lowest Bid} \times 40\%}{\text{Bidder's Cost}}$

Total Score = Technical Score + Cost Score

The proposal will be awarded to the highest total technical and price score.

The responsive bid with the highest combined rating of technical merit and cost will be recommended for award of a contract. In the event that two or more responsive bids have the same combined rating for cost and technical merit, the responsive bid that obtained the highest overall score for all the point-rated technical criteria will be recommended for award of a contract.

BASIS OF SELECTION - Applied Engineering Science (Part 4)

Mandatory Technical Criteria

The mandatory requirements below will be evaluated on a pass/fail (meets/does not meet) basis. Proposals that do not meet the requirements will be deemed non-responsive and given no further consideration.

Proposals MUST give evidence of the following compliance to the mandatory requirements, and present supporting documentation.

All Bidders are advised that only listing experience without providing any supporting data to describe when, where and how such experience was obtained will not be considered to be "demonstrated" for the purpose of the evaluation. All professional experience must be fully documented and substantiated in the proposal.

It is the responsibility of the Bidder to ensure sufficient details provided to enable a full evaluation.

Mandatory Technical Criteria (MT)			
For the purpose of the mandatory technical criteria specified below, the experience of the Bidder will be considered.			
Bidder means the person or entity (or, in the case of a joint venture, the persons or entities) submitting a bid to perform a contract for goods, services or both. It does not include the parent, subsidiaries or other affiliates of the Bidder, or its subcontractors.			
No	Mandatory Criteria	Met / Not Met	Cross Reference in Proposal
M1	<p>The Bidder must submit *detailed resumes of proposed resource(s), demonstrating that he/she meets the minimum mandatory requirements (educational, professional designations and work experience) for applicable resource as described in the Statement of Work.</p> <p>*Detailed resume defined as:</p> <ul style="list-style-type: none"> • Name of the resource; • Chronological work experience relevant to the provision of services described within the Terms of Reference (indicated in years and months); • Experience teaching in Mechanical Engineering, Marine Engineering or Naval Architecture • Education and professional attainment in relation to Mechanical Engineering, Marine Engineering or Naval Architecture. All formal training listed in chronological order by course/program title and the duration (Days/months/years) with start and end dates; and • Where, when and how the experience was obtained. <p>It is the responsibility of the Bidder to ensure that the proposed resource's resume is sufficiently detailed to enable a full evaluation.</p>		

	Bachelor Degree in Mechanical, Marine Engineering, or equivalent. (Degree must be certified as equivalent to a corresponding Canadian qualification)		
M2	Teaching experience in Mechanical Engineering, Marine Engineering or Naval Architecture at the post-secondary level of at least 5 years in the last 10 years.		

RATED REQUIREMENTS:

Technical Rating

Bids which meet all the mandatory technical criteria will be evaluated and scored as specified below.

Bids which fail to obtain the required minimum number of points specified will be declared non-responsive. Each point rated technical criterion should be addressed separately.

We advise tenderers to respond in the order that follows and in detail, to allow for a complete evaluation. The evaluation will be based solely on the information provided in the proposal. The review team may verify the information provided and obtain clarification.

Please write beside each of the criteria the relevant page number(s) from your proposal which addresses the requirement identified in the criteria.

The following will be used to evaluate the Point Rated Technical Criteria.

Rated Requirement		Maximum points	Cross Reference to Proposal
R1	The Bidder proposed resource sailed for 10 years or more as chief engineer while holding STCW Reg. III/2 First or Second Class Engineer Certificate of Competence Scale: 10 points for 10 years' experience and 1 points for each year of sea service above 10 to a maximum of 20 points.	Up to a max of /20	

<p>R2</p>	<p>The Bidder proposed resource shall demonstrate that they have experience, or have completed related training, in the design, application, and evaluation of objective (multiple-choice) exams.</p> <p>An example of related training would be training in teaching or instructional techniques, or teaching and instruction of adults, recognized by a provincial education authority or equivalent authority.</p> <p>Scale: 6 points for having completed training, 0.5 point for each year of experience to a maximum of 10 points.</p>	<p>Up to a max of /10</p>	
<p>R3</p>	<p>The Bidder proposed resource shall demonstrate having contributed to the development of curricula, programs and/or examinations related to the engineer officers' education, in compliance with the Standards of Training, Certification and Watchkeeping for Seafarers (STCW) Convention and Model Courses for engineer officers.</p> <p>Scale: 6 points for demonstrating having contributed to the development of curricula and programs and 0.5 points for each year developing examinations to a maximum of 10 points.</p>	<p>Up to a max of /10</p>	
<p>R4</p>	<p>The Bidder proposed resource shall submit a total of 20 sample questions (divided equally between levels), in the following subjects: Thermodynamics (Management Level) (5 Questions) Mechanics (Management Level) (5 Questions) Thermodynamics (Operational Level) (5 Questions) Mechanics (Operational Level) (5 Questions)</p> <p>Scale: 2 points for each question meeting quality assurance criteria of section 2.2 Quality Assurance of Multiple-choice Questions to a maximum of 40 points.</p>	<p>Up to a max of /40</p>	
<p>R5</p>	<p>The Bidder's submitted bid document demonstrates a thorough understanding of the requirements, a plan of action to meet the requirements and a reasonable time line in which to meet the requirements.</p> <p>Scale: 0 = Inaccurate understanding demonstrated, displaying misinterpretation of key facts, concepts, and dynamics. 2 = Poor understanding demonstrated, displaying an inconsistent grasp of key facts, concepts, and dynamics,</p>	<p>Up to a max of /5</p>	

	<p>and lacking precision.</p> <p>3 = Superficial understanding demonstrated, displaying a basic, general, consistent grasp of key facts, concepts, and dynamics.</p> <p>4 = Good understanding demonstrated, displaying an agile and precise grasp of key facts, concepts, and dynamics.</p> <p>5 = Excellent understanding demonstrated, displaying an agile, precise, and nuanced grasp of key facts, concepts, and dynamics, as well as value-added insight.</p>		
Total Point Rated Technical Criteria The minimum required score is 60% or 51 points.		/85	

To be eligible for evaluation, tenderers must meet to the stated requirements.

It is understood by the parties submitting proposals that, to qualify, bidders must meet all mandatory requirements as well as the minimum score identified for the point-rated criteria. The contract will be awarded based on a determination of best value taking into account both the technical merit of the proposals and the price evaluations. To arrive at an overall score achieved by a firm, a weighting has been established whereby technical merit will be valued at 60% of the bid and price at 40%.

For the purpose of ranking all technically acceptable proposals, the following ratio will factor the technical and the price component to establish a total percentage score: Technical: 60%, Price: 40%

$$\text{Technical Score} = \frac{\text{Bidder's Points}}{\text{Maximum Points}} \times 60\% \qquad \text{Cost Score} = \frac{\text{Lowest Bid}}{\text{Bidder's Cost}} \times 40\%$$

$$\text{Total Score} = \text{Technical Score} + \text{Cost Score}$$

The proposal will be awarded to the highest total technical and price score.

The responsive bid with the highest combined rating of technical merit and cost will be recommended for award of a contract. In the event that two or more responsive bids have the same combined rating for cost and technical merit, the responsive bid that obtained the highest overall score for all the point-rated technical criteria will be recommended for award of a contract.

TRANSPORT CANADA

APPENDIX "C"

GENERAL CONDITIONS

PROFESSIONAL SERVICES

1. Interpretation

In the Purchase Order,

- 1.1. "Amendment" means "Revision";
- 1.2. "Contract" means "Purchase Order" and all the documents referred to and identified in the Contract, including these General Conditions;
- 1.3. "Departmental Contracting Authority" means the officer or employee of Her Majesty who is identified in the Contract and who executes the Contract;
- 1.4. "Departmental Representative" means the officer or employee of Her Majesty who is identified in the Contract and includes a person authorized by the Departmental Representative to perform any of the Departmental Representative's functions under the Contract;
- 1.5. "Her Majesty" includes Her Majesty the Queen in right of Canada or any agent of Her Majesty the Queen in right of Canada, and includes a Crown corporation and a departmental corporation.
- 1.6. "invention" means any new and useful art, process, machine, manufacture or composition of matter, or any new and useful improvement thereof;
- 1.7. "Minister" includes a person acting for, or if the office is vacant, in place of the Minister of Transport and the Minister's successors in the office, and the Minister's or their lawful deputy and any of the Minister's or their representatives appointed for the purpose of the Contract;
- 1.8. "per diem" means a period of 7.5 hours of actual work per day. Where actual hours worked are less than 7.5 hours per day, the amount to be paid will be prorated accordingly;
- 1.9. "prototypes" includes models, patterns and samples;
- 1.10. "technical documentation" means designs, reports, photographs, drawings, plans, specifications, computer software, surveys, calculations and other data, information and material collected, computed, drawn or produced, including computer print-outs;
- 1.11. "work", unless otherwise expressed in the Contract, means everything that is necessary to be done, furnished or delivered by the Contractor to perform the Contractor's obligations under the Contract.

2. Priority of Documents

In the event of discrepancies or conflicts between these General Conditions and anything in the other documents making up the Contract, the General Conditions govern.

3. Successors and Assigns

The Contract shall ensure to the benefit of and be binding upon the parties hereto and their lawful heirs, executors, administrators, successors and permitted assigns.

4. Assignment, Subcontracting and Novation

- 4.1. The Contract shall not be assigned in whole or in part by the Contractor without the prior written consent of the Minister and any assignment made without that consent is void and of no effect.
- 4.2. No assignment of the Contract shall relieve the Contractor from any obligation under the Contract or impose any liability upon Her Majesty or the Minister.
- 4.3. Any assignment by the Minister of Her Majesty's interest in the Contract shall include the novation of the Minister's assignee as a party to the Contract. The Contractor shall be obligated to accept the novation of any such assignee and shall have no right to approve or disapprove the novation of such assignee on any basis whatsoever. The parties agree to promptly execute and deliver all such agreements and other instruments as may be reasonably required to give effect to any novation contemplated by this Article.
- 4.4. Neither the whole nor any part of the work may be subcontracted by the Contractor without the prior written consent of the Minister. Every subcontract shall incorporate all the terms and conditions of the Contract which can reasonably be applied thereto.

5. Time of the Essence

- 5.1. Time is of the essence of the Contract.
- 5.2. Any delay by the Contractor in performing the Contractor's obligations under the Contract which is caused by an event beyond the control of the Contractor, and which could not have been avoided by the Contractor without incurring unreasonable cost through the use of work-around plans including alternative sources or other means, constitutes an excusable delay. Such event may include, but is not restricted to, acts of God, acts of Her Majesty, acts of local or provincial governments, fires, floods, epidemics, quarantine restrictions, strikes or labour unrest, freight embargoes and unusually severe weather.
- 5.3. The Contractor shall give notice to the Departmental Representative immediately after the occurrence of the event that causes the excusable delay. The notice shall state the cause and circumstances of the delay and indicate the portion of the work affected by the delay. When requested to do so by the Departmental Representative, the Contractor shall deliver a description, in a form satisfactory to the Departmental Representative, of work-around plans, including alternative sources and any other means that the Contractor will utilize to overcome the delay and endeavour to prevent any further delay. Upon approval in writing by the Departmental Representative of the work-around plans, the Contractor shall implement the work-around plans and use all reasonable means to recover any time lost as a result of the excusable delay.
- 5.4. Unless the Contractor complies with the notice requirements set forth in the Contract, any delay that would otherwise constitute an excusable delay shall be deemed not to be an excusable delay.
- 5.5. Notwithstanding that the Contractor has complied with the requirements of Article 5.3, the Minister may exercise any right of termination referred to in Article 8.

6. Indemnification

- 6.1. The Contractor shall indemnify and save harmless Her Majesty and the Minister from and against all claims, demands, losses, damages, costs, expenses, actions, suits and other proceedings, by whomever made, sustained, brought, prosecuted, or threatened to be brought or prosecuted, in any manner based upon, occasioned by or attributable to any injury to or death of a person or damage to or loss of property arising from any willful or negligent act, omission or delay on the part of the Contractor or the Contractor's employees or agents in performing the work.
- 6.2. The Contractor shall indemnify Her Majesty and the Minister from all costs, charges and expenses whatsoever that Her Majesty sustains or incurs in or about all claims, actions, suits and other proceedings, by whomever made, for the use of the invention claimed in a patent, or infringement or alleged infringement of any patent or any registered industrial design or any copyright resulting from the performance of the Contractor's obligations under the Contract, and in respect of the use of or disposal by Her Majesty of anything furnished pursuant to the Contract.
- 6.3. The Contractor's liability to indemnify Her Majesty and the Minister under the Contract shall not affect or prejudice Her Majesty and the Minister from exercising any other rights under law.

7. Notices

Where in the Contract any notice, request, direction, or other communication is required to be given or made by either party, it shall be in writing and is effective if delivered by hand, or by courier, or if sent by registered mail, or facsimile or other electronic means that provides paper records of the text of the notice, addressed to the party for whom it is intended at the address mentioned in the Contract, and any notice, request, direction or other communication shall be deemed to have been given if by registered mail, when the postal receipt is acknowledged by the other party; if by facsimile or other electronic means, when transmitted. The address of either party may be changed by notice in the manner set out in this provision.

8. Termination or Suspension

- 8.1. The Minister may, by giving notice to the Contractor, terminate or suspend the work with respect to all or any part or parts of the work not completed.
- 8.2. All work completed by the Contractor to the satisfaction of the Minister before the giving of such notice shall be paid for by the Minister in accordance with the provisions of the Contract and, for all work not completed before the giving of such notice, the Minister shall pay the Contractor's costs as determined under the provisions of the Contract and, in addition, an amount representing a fair and reasonable fee in respect of such work.
- 8.3. In addition to the amount which the Contractor shall be paid under Article 8.2, the Contractor shall be reimbursed for the Contractor's cost of and incidental to the cancellation of obligations incurred by the Contractor pursuant to such notice and obligations incurred by the Contractor or to which the Contractor is subject with respect to the work.

- 8.4. Payment and reimbursement under the provisions of Article 8 shall be made only to the extent that it is established to the satisfaction of the Minister that the costs and expenses were actually incurred by the Contractor and that they are fair and reasonable and are properly attributable to the termination or suspension of the work or the part thereof so terminated or suspended.
- 8.5. The Contractor shall not be entitled to be reimbursed any amount which, taken together with any amounts paid or becoming due to the Contractor under the Contract, exceeds the Contract price applicable to the work or the particular part thereof.
- 8.6. The Contractor shall have no claim for damages, compensation, loss of profit, allowance or otherwise by reason of or directly or indirectly arising out of any action taken or notice given by the Minister under the provisions of Article 8 except as expressly provided therein.

9. Termination due to Default of Contractor

- 9.1. The Minister may, by notice to the Contractor, terminate the whole or any part of the work if:
 - 9.1.1. the Contractor becomes bankrupt or insolvent, or a receiving order is made against the Contractor, or an assignment is made for the benefit of creditors, or if an order is made or resolution passed for the winding-up of the Contractor, or if the Contractor takes the benefit of any statute for the time being in force relating to bankrupt or insolvent debtors, or
 - 9.1.2. the Contractor fails to perform any of the Contractor's obligations under the Contract, or in the Minister's view fails to make progress so as to endanger performance of the Contract in accordance with its terms.
- 9.2. In the event that the Minister terminates the work in whole or in part under Article 9.1, the Minister may arrange, upon such terms and conditions and in such manner as the Minister deems appropriate, for the work to be completed that was so terminated, and the Contractor shall be liable to the Minister for any excess costs relating to the completion of the work.
- 9.3. Upon termination of the work under Article 9.1, the Minister may require the Contractor to deliver and transfer title to Her Majesty, in the manner and to the extent directed by the Minister, in any finished work which has not been delivered and accepted prior to such termination and in any materials or work-in-process which the Contractor has specifically acquired or produced for the fulfillment of the Contract. The Minister shall pay the Contractor for all such finished work delivered pursuant to such direction and accepted by the Minister, the cost to the Contractor of such finished work plus the proportionate part of any fee fixed by the Contract and shall pay or reimburse the Contractor the fair and reasonable cost to the Contractor of all materials or work-in-process delivered to the Minister pursuant to such direction. The Minister may withhold from the amounts due to the Contractor such sums as the Minister determines to be necessary to protect Her Majesty against excess costs for the completion of the work.
- 9.4. The Contractor shall not be entitled to be reimbursed any amount which, taken together with any amounts paid or becoming due to the Contractor under the Contract, exceeds the contract price applicable to the work or the particular part thereof.
- 9.5. If, after the Minister issues a notice of termination under Article 9.1, it is determined by the Minister that the default of the Contractor is due to causes beyond the control of the Contractor, such notice of termination shall be deemed to have been issued pursuant to

Article 8.1 and the rights and obligations of the parties hereto shall be governed by Article 8.

10. Records to be kept by Contractor

- 10.1. The Contractor shall keep proper accounts and records of the cost of the work and of all expenditures or commitments made by the Contractor including the invoices, receipts and vouchers which shall at reasonable times be open to audit and inspection by the authorized representative(s) of the Minister who may make copies thereof and take extracts therefrom.
- 10.2. The Contractor shall afford facilities for audit and inspection and shall furnish the authorized representative(s) of the Minister with such information as the Minister or they may from time to time require with reference to such invoices, receipts and vouchers.
- 10.3. The Contractor shall not dispose of such invoices, receipts and vouchers without the written consent of the Minister, but shall preserve and keep them available for audit and inspection for such period of time as may be specified elsewhere in the Contract or, in the absence of such specification, for a period of two years following completion of the work.

11. Ownership of Intellectual and Other Property including Copyright

- 11.1. Technical documentation and prototypes produced by the Contractor in the performance of the work under the Contract shall vest in and remain the property of Her Majesty, and the Contractor shall account fully to the Minister in respect of the foregoing in such manner as the Minister shall direct.
- 11.2. Technical documentation shall contain the following copyright notice:

© HER MAJESTY THE QUEEN IN RIGHT OF CANADA
as represented by the Minister of Transport
- 11.3. Technical information and inventions conceived or developed or first actually reduced to practice in performing the work under the Contract shall be the property of Her Majesty. The Contractor shall have no rights in and to such technical information and inventions. The Contractor shall not divulge or use such technical information and inventions, other than in performing the work under the Contract, and shall not sell other than to Her Majesty any articles or things embodying such technical information and inventions.

12. Conflict of Interest and Post-Employment Measures

- 12.1. It is a term of the Contract that no individual for whom the post-employment provisions of the Conflict of Interest and Post-Employment Code for Public Office Holders (1994) or the Values and Ethics Code for the Public Service apply, shall derive a direct benefit from the Contract unless that individual is in compliance with the applicable post-employment provisions.

13. Contractor Status

This is a contract for the performance of a service and the Contractor is engaged under the Contract as an independent contractor for the sole purpose of providing a service. Neither the Contractor nor any of the Contractor's personnel is engaged by the Contract as an employee, servant or agent of Her Majesty. The Contractor agrees to be solely responsible for any and all payments and/or deductions required to be made including those required for Canada or Quebec Pension Plans, Employment Insurance, Workers' Compensation, or Income Tax.

14. Warranty by Contractor

- 14.1. The Contractor warrants that the Contractor is competent to perform the work required under the Contract in that the Contractor has the necessary qualifications including the knowledge, skill and ability to perform the work.
- 14.2. The Contractor warrants that the Contractor shall provide a quality of service at least equal to that which would generally be expected of a competent contractor in a like situation.

15. Member of House of Commons

No member of the House of Commons shall be admitted to any share or part of the Contract or to any benefit to arise therefrom.

16. Amendments

- 16.1. No amendment of the Contract nor waiver of any of the terms and provisions shall be deemed valid unless effected by a written amendment signed by the Departmental Contracting Authority.
- 16.2. No increase in the total liability of Her Majesty or in the price of the work resulting from any change, modification or interpretation of the documents will be authorized or paid to the Contractor unless such change, modification or interpretation has received the prior approval in writing of the Departmental Contracting Authority.

17. Entire Agreement

The Contract constitutes the entire agreement between the parties with respect to the subject matter of the Contract and supersedes all previous negotiations, communications and other agreements relating to it unless they are incorporated by reference in the Contract.

18. Payment by the Minister

18.1. Applicable when the Terms of Payment specify PROGRESS payments.

18.1.1. Payment by the Minister to the Contractor for the work will be made:

18.1.1.1. in the case of a progress payment other than the final payment, within 30 days following the date of receipt of a duly completed progress claim or invoice, or

18.1.1.2. in the case of a final payment, within 30 days following the date of receipt of a duly completed final claim or invoice, or within 30 days following the date on which the work is completed, whichever is the later.

18.1.2. If the Minister has any objection to the form of the claim or invoice, the Minister shall notify the Contractor of the nature of the objection within 15 days of receipt of the claim or invoice. "Form of the claim or invoice" means a claim or invoice which contains or is accompanied by such substantiating documentation as the Minister requires. Failure by the Minister to act within 15 days will only result in the dates specified in Article 18.1.1 to apply for the sole purpose of calculating interest on overdue accounts.

18.2. Applicable when the Terms of Payment specify payment on COMPLETION.

18.2.1. Payment by the Minister to the Contractor for the work will be made within:

18.2.1.1. 30 days following the date on which all of the work has been delivered at the location(s) specified in and pursuant to the Contract and all other work required to be performed by the Contractor under the terms of the Contract has been completed, or

18.2.1.2. 30 days following the date on which an invoice and substantiating documentation are received according to the terms of the Contract, whichever is later.

18.2.2. If the Minister has any objection to the form of the invoice or substantiating documentation, the Minister shall notify the Contractor of the nature of the objection within 15 days of receipt of the invoice. "Form of the invoice" means an invoice which contains or is accompanied by such substantiating documentation as the Minister requires. Failure by the Minister to act within 15 days will only result in the dates specified in Article 18.2.1 to apply for the sole purpose of calculating interest on overdue accounts.

19. Payment of Interest on Overdue Accounts

19.1. For the purposes of this Article:

19.1.1. "Average Rate" means the simple arithmetic mean of the Bank Rates in effect at 4:00 p.m. Eastern Standard Time each day during the calendar month which immediately precedes the calendar month in which payment is made, where the "Bank Rate" means the rate of interest established from time to time by the Bank of Canada as the minimum rate at which the Bank of Canada makes short-term advances to members of the Canadian Payments Association,

19.1.2. "date of payment" means the date of the negotiable instrument drawn by the Receiver General or Canada and given for payment of an amount due and payable,

19.1.3. an amount is "due and payable" when it is due and payable by the Minister to the Contractor in accordance with the terms of the Contract, and

19.1.4. an amount becomes "overdue" when it is unpaid on the first day following the day upon which it is due and payable.

19.2. The Minister shall be liable to pay to the Contractor simple interest at the Average Rate plus three (3) per cent per annum on any amount that is overdue, from the date such amount becomes overdue until the day prior to the date of payment, inclusive. Interest shall be paid without notice from the Contractor except in respect of payment which is less than 15 days overdue. No interest will be payable or paid in respect of payment made within such 15 days unless the Contractor so requests after payment has become due.

19.3. The Minister shall not be liable to pay interest in accordance with Article 19.2 if the Minister is not responsible for the delay in paying the Contractor.

19.4. The Minister shall not be liable to pay interest on overdue advance payments.

20. Schedule and Location of Work

20.1. Where the work is to be performed in the offices of the Department of Transport, the Contractor shall, for better coordination, follow the same time schedule as applicable to employees of the Department of Transport.

20.2. Where work is to be performed at locations other than those described in Article 20.1, the schedule and location of work will be set forth in the Statement of Work.

21. No Other Benefits

- 21.1. It is understood and agreed that the Contractor will act as an independent contractor and that the Contractor is entitled to no other benefits or payments whatsoever other than those specified in the Terms of Payment.
- 21.2. It is further understood and agreed that entry into the Contract will not result in the appointment or employment of the Contractor as an employee, servant or agent of Her Majesty.

22. Applications, Reports, Payments by Contractor and Applicable Legislation

- 22.1. It shall be the sole responsibility of the Contractor to submit any applications, reports, payments or contributions with respect to Canada or Quebec Pension Plans, Employment Insurance, Workers' Compensation, Income Tax or any other similar matter which may be required by law to be made by the Contractor as a self-employed person in connection with the services to be performed under the Contract.
- 22.2. It shall be the sole responsibility of the Contractor to comply with all federal, provincial and municipal legislation which may have application to the services being performed under the Contract.
- 22.3. It is understood and agreed that the cost to the Contractor of doing those things required under Articles 22.1 and 22.2 is not to be charged to or reimbursed by the Minister in any way; such costs having been taken into consideration and included in the rates of payments indicated in the Terms of Payment.
- 22.4. The Contractor shall comply with all provincial and federal legislation affecting conditions of work and wage rates.

23. Minister's Responsibilities

The Minister shall provide such support, guidance, direction, instruction, acceptances, decisions and information as deemed necessary or appropriate under the Contract.

24. Public Disclosure

24.1. The contractor consents, in the case of a contract that has a value in excess of \$10,000, to the public disclosure of basic information — other than information described in any of paragraphs 20(1)(a) to (d) of the Access to Information Act — relating to the contract.

25. Integrity Provisions

25.1 Statement

25.1.1 The Contractor must comply with the [Code of Conduct for Procurement](#) and must comply with the terms set out in these Integrity Provisions.

25.1.2 The Contractor confirms that it understands that convictions of certain offences, a false declaration in its bid, a false declaration under the Contract or failing to maintain up-to-date information requested may lead to a termination for default. If the Contractor or any of its Affiliates fail to remain free and clear of any convictions and any conditional or absolute discharges specified in these Integrity Provisions during the contract period, Canada may, following a notice period, terminate for default. The Contractor understands that a termination for default will not restrict Canada's right to exercise any other remedies that may be available against the Contractor and agrees to immediately return any advance

payments.

25.2 List of Names

The Contractor must immediately inform Canada in writing of any changes affecting the list of names of directors and owners during the contract period.

25.3 Information Verification

The Contractor certifies that it is aware, and its Affiliates are aware, that Canada may verify at any time during the contract period, the information provided by the Contractor, including the information relating to the acts or convictions and any conditional or absolute discharges specified in these Integrity Provisions. Canada may request additional information, validations from a qualified third party, consent forms and other evidentiary elements proving identity and eligibility to contract with Canada.

25.4 Lobbying Act

The Contractor certifies that neither it nor its Affiliates have directly or indirectly, paid or agreed to pay, and will not, directly or indirectly, pay a contingency fee to any individual for the solicitation, negotiation or obtaining of the Contract if the payment of the fee would require the individual to file a return under section 5 of the *Lobbying Act*.

25.5 Canadian Offences Resulting in Legal Incapacity

25.5.1 The Contractor has certified that neither it nor any of its Affiliates have been convicted of or have pleaded guilty to an offence under any of the following provisions, which result in legal incapacity under section 750(3) of the *Criminal Code*, and for which they have not been pardoned or received a record of discharge under the Canadian Pardons subsection:

25.5.1.1 paragraph 80(1)(d) (*False entry, certificate or return*), subsection 80(2) (*Fraud against Her Majesty*) or section 154.01 (*Fraud against Her Majesty*) of the *Financial Administration Act*, or

25.5.1.2 section 121 (*Frauds on the government and Contractor subscribing to election fund*), section 124 (*Selling or Purchasing Office*), section 380 (*Fraud*) for fraud committed against Her Majesty or section 418 (*Selling defective stores to Her Majesty*) of the *Criminal Code*, or

25.5.2 the Contractor has not been convicted of or pleaded guilty to the offences described in paragraph (a) and has certified that it has not directed, influenced, authorized, assented to, acquiesced in or participated in the commission or omission of the acts or offences that would render that Affiliate ineligible to be awarded a contract under (25.5.1).

25.6 Canadian Offences

The Contractor has certified that:

25.6.1 it and its Affiliates have not, in the last three years, from the date of contract award, been convicted of or pleaded guilty to an offence under any of the following provisions for which it would be ineligible for contract award under these Integrity Provisions and for which they have not been pardoned or received a record of discharge under the Canadian Pardons subsection:

25.6.1.1 section 119 (*Bribery of judicial officers, etc*), section 120 (*Bribery of officers*), section 346 (*Extortion*), sections 366 to 368 (*Forgery and other offences resembling forgery*), section 382 (*Fraudulent manipulation of stock exchange transactions*), section 382.1 (*Prohibited insider trading*), section 397 (*Falsification of books and documents*), section 422 (*Criminal breach of contract*), section 426 (*Secret commissions*), section 462.31 (*Laundering proceeds of crime*) or sections 467.11 to 467.13 (*Participation in activities of criminal organization*) of the *Criminal Code*, or

25.6.1.2 section 45 (*Conspiracies, agreements or arrangements between competitors*), section 46 (*Foreign directives*), section 47 (*Bid rigging*), section 49 (*Agreements or arrangements of federal financial institutions*), section 52 (*False or misleading representation*), section 53 (*Deceptive notice of winning a prize*) of the *Competition Act*, or

25.6.1.3 section 239 (*False or deceptive statements*) of the *Income Tax Act*, or

25.6.1.4 section 327 (*False or deceptive statements*) of the *Excise Tax Act*, or

25.6.1.5 section 3 (*Bribing a foreign public official*), section 4 (*Accounting*), or section 5 (*Offence committed outside Canada*) of the *Corruption of Foreign Public Officials Act*, or

25.6.1.6 section 5 (*Trafficking in substance*), section 6 (*Importing and exporting*), or section 7 (*Production of substance*) of the *Controlled Drugs and Substance Act*, or

25.6.2 the Contractor has not been convicted of or pleaded guilty to the offences described in paragraph (25.6.1) and has certified that it has not directed, influenced, authorized, assented to, acquiesced in or participated in the commission or omission of the acts or offences that would make that Affiliate ineligible for contract award.

25.7 Foreign Offences

The Contractor has certified that:

25.7.1. it and its Affiliates have not, in the last three years, from the date of contract award, been convicted of or pleaded guilty to an offence in a jurisdiction other than Canada of having committed an act or omission that would, in Canada's opinion, be similar to an offence referenced in the Canadian Offences Resulting in Legal Incapacity and the Canadian Offences subsections and for which it would be ineligible for contract award under these Integrity Provisions and for which they have not been pardoned or received a record of discharge under the Foreign Pardons subsection:

25.7.1.1 the court before which the Contractor or the Affiliate of the Contractor appeared acted within the court's jurisdiction;

25.7.1.2 the Contractor or the Affiliate of the Contractor appeared during the court's proceedings or submitted to the court's jurisdiction;

25.7.1.3 the court's decision was not obtained by fraud; and

25.7.1.4 the Contractor or the Affiliate of the Contractor was entitled to present to the court every defense that the Contractor or the Affiliate of the Contractor would have been entitled to present had the proceeding been tried in Canada; or

25.7.2 it has not been convicted of or pleaded guilty to the offences described in paragraph (25.7.1) and has certified that it has not directed, influenced, authorized, assented to, acquiesced in or participated in the commission or omission of the acts or offences that would render that Affiliate ineligible to be awarded a contract under (25.7.1).

25.8 Ineligibility to Contract with Canada

25.8.1 The Contractor confirms that it understands that if after contract award they have been convicted of certain offences, as described in the Canadian Offences Resulting in Legal Incapacity, the Canadian Offences and the Foreign Offences subsections, they will be ineligible to contract with Canada. If, after contract award, a Contractor becomes ineligible for contract award, Canada may, following a notice period, declare the Contractor to be ineligible and, to the extent that a contract has been awarded:

25.8.1.1 terminate the contract for default; or

25.8.1.2 require the Contractor to enter into an Administrative Agreement with the Minister of PWGSC on such terms and conditions as are necessary to safeguard the integrity of the procurement process.

25.8.2 The Contractor confirms that it understands that where its Affiliate has been convicted of certain offences, as described in the Canadian Offences Resulting in Legal Incapacity, the Canadian Offences and the Foreign Offences subsections, the Affiliate is ineligible to contract with Canada. If, after contract award, an Affiliate of a Contractor becomes ineligible to contract with Canada, Canada may, following a notice period, declare the Contractor to be ineligible and, to the extent that a contract has been concluded:

25.8.2.1 terminate the contract for default if, in the opinion of Canada, there is evidence that the Contractor directed, influenced, authorized, assented to, acquiesced in or participated in the commission or omission of certain acts or offences that make that Affiliate ineligible; or

25.8.2.2 require the Contractor to enter into an Administrative Agreement with the Minister of PWGSC on such terms and conditions as are necessary to safeguard the integrity of the procurement process.

25.8.3 The Contractor confirms that it understands that where it has been declared to be ineligible to contract with Canada under the *Ineligibility and Suspension Policy*, it is also ineligible to contract with Canada under these Integrity Provisions for the duration of the period that has been determined by the Minister of PWGSC. Where the Contractor has been declared to be ineligible under the *Ineligibility and Suspension Policy* after contract award, Canada may, following a notice period:

25.8.3.1 terminate the contract for default; or

25.8.3.2 requires the Contractor to enter into an Administrative Agreement with the Minister of PWGSC on such terms and conditions as are necessary to safeguard the integrity of the procurement process.

25.8.4 The Contractor confirms that it understands that where it or its Affiliates have been held responsible for breaches under the Lobbying Act subsection, it is ineligible to contract with Canada under these Integrity Provisions for the duration of the period that has been determined by the Minister of PWGSC. Where the Contractor has been declared to be ineligible under the *Ineligibility and Suspension*

Policy after contract award, Canada may, following a notice period:

25.8.4.1 terminate the contract for default; or

25.8.4.2 require the Contractor to enter into an Administrative Agreement with the Minister of PWGSC on such terms and conditions as are necessary to safeguard the integrity of the procurement process.

25.9 Declaration of Offences Committed

Where a Bidder or its Affiliate is unable to certify that it has not been convicted of any of the offences referenced under the Canadian Offences Resulting in Legal Incapacity, the Canadian Offences and the Foreign Offences subsections, the Bidder must provide with its bid the completed Bidder's Declaration Form, to be given further consideration in the procurement process.

25.10 Period of Ineligibility

The following rules determine the period for which a Contractor or its Affiliate that has been convicted of certain offences is, ineligible to contract with Canada:

25.10.1 for all offences referenced under the Canadian Offences Resulting in Legal Incapacity subsection for which a Contractor or its Affiliate has pleaded guilty to or has been convicted of, the period of ineligibility to be awarded a contract is indefinite, subject to the Canadian Pardons subsection;

25.10.2 subject to an Administrative Agreement, for all offences referenced under the Canadian Offences and Foreign Offences subsections for which a Contractor or its Affiliate has pleaded guilty to or been convicted of, as the case may be, in the last three years, the period of ineligibility to contract with Canada is ten years from the date of determination by the Minister of PWGSC, subject to the Canadian Pardons and Foreign Pardons subsections;

25.10.3 subject to an Administrative Agreement, for all breaches under the Lobbying Act subsection for which a Contractor or its Affiliate has been found responsible, in the last three years, the period of ineligibility to contract with Canada is ten years from the date of determination by the Minister of PWGSC.

25.11 Canadian Pardons

A determination of ineligibility to contract with Canada will not be made or maintained by the Minister of PWGSC under these Integrity Provisions, in respect of an offence or act that gave rise or that could give rise to a determination of ineligibility, if the Contractor or its Affiliate has:

25.11.1 been granted an absolute discharge in respect of the offence, or has been granted a conditional discharge in respect of the offence and those conditions have been satisfied;

25.11.2 been granted a pardon under Her Majesty's royal prerogative of mercy;

25.11.3 been granted a pardon under section 748 of the *Criminal Code*;

25.11.4 received a record of suspension ordered under the *Criminal Records Act*; and

25.11.5 been granted a pardon under the *Criminal Records Act*, as that Act read immediately before the day section 165 of the *Safe Streets and Communities Act* comes into force.

25.12 Foreign Pardons

A determination of ineligibility to contract with Canada will not be made or maintained, as the case may

be, by the Minister of PWGSC in respect of matters referenced in the Foreign Offences subsection and with respect to an offence or act that gave rise or will give rise to a determination of ineligibility, if the Contractor or its Affiliate, has at any time, benefited from foreign measures that are similar to Canadian pardons at the sole discretion of Canada, conditional discharges, absolute discharges, records of suspension, or restoration of legal capacities by the Governor in Council.

25.13 Period of Ineligibility for Breaching Administrative Agreements

The Contractor confirms that it understands that where it has concluded an Administrative Agreement and that it has breached any of its terms and conditions, the Minister of PWGSC will lengthen the period of ineligibility for a period to be determined by the Minister of PWGSC.

25.14 Obligations on Subcontractors

The Contractor confirms that it understands that to the extent that it relies on a subcontractor(s) to perform the Contract, the Contractor will not enter into a subcontract with a company that has been convicted of or pleaded guilty or an Affiliate of the company has been convicted of or pleaded guilty, as the case may be, to any of the offences referenced in the Canadian Offences Resulting in Legal Incapacity, the Canadian Offences and the Foreign Offences subsections for which no pardon or equivalent has been received under the Canadian Pardons and Foreign Pardons subsections, without the prior written approval of the Minister of PWGSC. Where the Contractor has entered into a contract with an ineligible subcontractor and for which no prior written approval has been received by Canada, the Minister of PWGSC will declare the Contractor to be ineligible to contract with Canada for a period of five years.

TRANSPORT CANADA
APPENDIX “D” and “D-1”
SUPPLEMENTARY CONDITIONS
INTELLECTUAL PROPERTY AND CONFIDENTIALITY CLAUSE

TITLE TO INTELLECTUAL PROPERTY
ARISING UNDER CROWN PROCUREMENT CONTRACTS

CROWN OWNS

The following set of clauses entitled **CROWN OWNS: Canada to Own Intellectual Property Rights in Foreground Information** replaces all clauses referring to ownership of intellectual and other property, including copyright, in the General Conditions.

CROWN OWNS:
Canada to Own Intellectual Property Rights in Foreground Information

- 01 Interpretation
- 02 Disclosure of Foreground Information
- 03 Canada to Own Intellectual Property Rights in Foreground Information
- 04 License to Intellectual Property Rights in Background Information
- 05 Right to License
- 06 Access to Information; Exception to Contractor Rights
- 07 Waiver of Moral Rights

01 Interpretation

1. In the Contract,

“Background Information” means all Technical Information that is not Foreground Information and that is proprietary to or the confidential information of the Contractor, its Subcontractors or any other supplier of the Contractor;

“Canada” means Her Majesty the Queen in right of Canada;

“Firmware” means any computer program stored in integrated circuits, read-only memory or other similar devices;

“Foreground Information” means any Invention first conceived, developed or reduced to practice as part of the Work under the Contract and all other Technical Information conceived, developed or produced as part of the Work under the Contract;

“Intellectual Property Right” means any intellectual property right recognized by the law, including any intellectual property right protected through legislation (such as that governing patents, copyright, industrial design, integrated circuit topography, or plant breeders’ rights) or arising from protection of information as a trade secret or as confidential information;

“Invention” means any new and useful art, process, machine, manufacture or composition of matter, or any new and useful improvement in any art, process, machine, manufacture or composition of matter, whether or not patentable;

“Minister” includes a person acting for, or if the office is vacant, in place of the Minister of Transport and the Minister’s successors in the office, and the Minister’s or his/her representative(s) appointed for the purpose of the Contract;

“Software” means any computer program whether in source or object code (including Firmware), any computer program documentation recorded in any form or medium, and any computer database, and includes modifications to any of the foregoing;

“Technical Information” means all information of a scientific, technical or artistic nature relating to the Work, whether oral or recorded in any form or medium and whether or not subject to copyright, including but not limited to any Inventions, designs, methods, processes, techniques, know-how, models, prototypes, patterns, samples, schematics, experimental or test data, reports, drawings, plans, specifications, photographs, collections of information, manuals and any other documents, and Software. Technical Information does not include data concerned with the administration of the Contract by Canada or the Contractor, such as internal financial or management information, unless it is a deliverable under the Contract.

02 Disclosure of Foreground Information

1. The Contractor shall promptly report and fully disclose to the Minister all Foreground Information that could be Inventions, and shall report and fully disclose to the Minister all other Foreground Information not later than the time of completion of the Work or at such earlier time as the Minister or the Contract may require.
2. Before and after final payment to the Contractor, the Minister shall have the right to examine all records and supporting data of the Contractor which the Minister reasonably deems pertinent to the identification of Foreground Information.

03 Canada to Own Intellectual Property Rights in Foreground Information

1. Without affecting any Intellectual Property Rights or interests therein that have come into being prior to the Contract, all Intellectual Property Rights in the Foreground Information shall immediately, as soon as they come into existence, vest in and remain the property of Canada. The Contractor shall have no right in or to any such Intellectual Property Rights in the Foreground Information except any right that may be granted in writing by Canada.
2. The Contractor shall incorporate the copyright symbol and either of the following copyright notices, as appropriate, into all Foreground Information that is subject to copyright, regardless of the form in or medium upon which it is recorded:

© HER MAJESTY THE QUEEN IN RIGHT OF CANADA (2018)

or

© SA MAJESTÉ LA REINE DU CHEF DU Canada (2018)

3. (i) For greater certainty, the Contractor agrees that where the Work under the Contract involves the preparation of a database or other compilation using information or data supplied by Canada or personal information referred to in paragraph (ii), then the Contractor shall not use or disclose any such information or data or personal information for any purpose other than completing the Work under the Contract. The Contractor shall not dispose of such information or data or personal information except by returning it to Canada. The Contractor shall comply with the General Conditions of the Contract in regard to maintaining the confidentiality of such information, data, or personal information. Unless the Contract otherwise expressly provides, the Contractor shall deliver to Canada all such information, data, or personal information, together with every copy, draft, working paper and note thereof that contains such

information, data, or personal information upon completion or termination of the Contract or at such earlier time as the Minister may require.

(ii) For greater certainty and without limiting sub-section 03(1), if the Work under the Contract involves the collection of personal information as that term is defined in the Privacy Act (R.S.C., c. P-21), then all Intellectual Property Rights in and title to that personal information shall, immediately upon the collection of it by the Contractor, vest in Canada, and the Contractor shall have no right or interest in it.

4. The Contractor shall execute such conveyances or other documents relating to the Intellectual Property Rights in the Foreground Information as the Minister may require, and the Contractor shall, at Canada's expense, afford the Minister all reasonable assistance in the preparation of applications and in the prosecution of any applications for registration of any Intellectual Property Right in any jurisdiction, including without limitation the assistance of the inventor in the case of Inventions.

04 License to Intellectual Property Rights in Background Information

1. Without restricting the scope of any licence to exercise the Intellectual Property Rights in the Background Information that Canada may otherwise hold, the Contractor hereby grants to Canada a non-exclusive, perpetual, irrevocable, world-wide, fully-paid and royalty-free license to exercise such of the Intellectual Property Rights in any Background Information incorporated into the Work or necessary for the performance of the Work as may be required for the following purposes:

(a) for the use, operation, maintenance, repair or overhaul of the Work;

(b) in the manufacturing of spare parts for maintenance, repair or overhaul of any custom part of the Work by Canada if those parts are not reasonably available to enable timely maintenance, repair or overhaul;

I for disclosure to any contractor engaged by Canada (or bidder for such a contract) to be used solely for a purpose set out in paragraph (a) or (b), but only if the Contractor is unable or unwilling to carry out the maintenance, repair or overhaul or provide the spare parts on reasonable commercial terms and within reasonable delivery times;

and the Contractor agrees to make any such Background Information (including, in the case of Software, source code) promptly available to Canada for any such purpose.

2. Without restricting the scope of any licence to exercise the Intellectual Property Rights in the Background Information that Canada may otherwise hold, the Contractor hereby further grants to Canada a non-exclusive, perpetual, irrevocable, world-wide, fully-paid and royalty-free license to exercise such of the Intellectual Property Rights in the Background Information incorporated into the Work or necessary for the performance of the Work as are necessary in order for Canada to modify, improve or further develop the Foreground Information. Canada's rights under this subsection 2 shall not include the right to reproduce the whole or part of any deliverable under the Contract that does not incorporate Foreground Information, save that Canada may reproduce any drawings, plans, designs, or other Background Information that are subject to copyright or industrial design protection, for purposes of modification, improvement or further development of the Foreground Information by or for Canada. The Contractor agrees to make any such Background Information (including, in the case of Software, source code) promptly available to Canada for any such purpose.

3. Notwithstanding subsections 1 and 2, the license set out therein shall not apply to any Software that is subject to detailed license conditions that are set out elsewhere in the Contract.

4. The Contractor acknowledges that, subject to paragraph I of subsection 1, Canada may wish to award contracts for any of the purposes contemplated in subsections 1 and 2 and that such contract awards may follow a competitive process. The Contractor agrees that Canada's license in relation to the Intellectual Property Rights in Background Information includes the right to disclose the Background Information to bidders for such contracts, and to sub-license or otherwise authorize the use of that

information by any contractor engaged by Canada solely for the purpose of carrying out such a contract. Canada shall require bidders and the contractor not to use or disclose any Background Information except as may be necessary to bid for or to carry out that contract.

5. Where the Intellectual Property Rights in any Background Information are owned by a Subcontractor at any tier, the Contractor shall either obtain a license from that Subcontractor that permits compliance with subsections 1 and 2 or arrange for the Subcontractor to convey directly to Canada the same rights by execution of the form provided for that purpose by the Minister, in which case the Contractor shall deliver that form to the Minister, duly completed and executed by the Subcontractor, no later than the time of disclosure to Canada of that Background Information.

05 Right to License

The Contractor represents and warrants that the Contractor has, or the Contractor undertakes to obtain, the right to grant to Canada the license to exercise the Intellectual Property Rights in the Background Information as required by the Contract.

06 Access to Information; Exception to Contractor Rights

1. Subject to the Access to Information Act, R.S.C., c. A-1 and to any right of Canada under the Contract, Canada shall not release or disclose outside the Government of Canada any Background Information delivered to Canada under the Contract that is confidential information or a trade secret of the Contractor or a Subcontractor.

2. Nothing in these terms and conditions shall be construed as limiting Canada's right to exercise the Intellectual Property Rights in any Background Information, or to disclose any Background Information, to the extent that such information:

(a) is or becomes in the public domain, or to the extent that the Contractor does not benefit from or ceases to benefit from any intellectual property rights protection for such information under legislation or at law (other than under the terms of the Contract), for any reason including as a result of Canada's use or disclosure of deliverables under the Contract for any purpose whatever that is not expressly excluded under the Contract;

(b) is or becomes known to Canada from a source other than the Contractor, except from any source that is known to Canada to be under an obligation to the Contractor not to disclose the information;

(c) is independently developed by or for Canada; or

(d) is disclosed under compulsion of a legislative requirement or any order of a court or other tribunal having jurisdiction.

07 Waiver of Moral Rights

1. The Contractor shall provide to Canada, at the completion of the Work or at such other time as the Minister may require, a written permanent waiver of moral rights (as that term is defined in the Copyright Act, R.S.C., c. C-42), in a form acceptable to the Minister, from every author that contributed to any Foreground Information which is subject to copyright protection and which is deliverable to Canada under the terms of the Contract.

2. If the Contractor is an author of the Foreground Information referred to in subsection 1, the Contractor hereby permanently waives the Contractor's moral rights in that Foreground Information.

CONFIDENTIALITY CLAUSE



Transport
Canada

Transports
Canada

File No.: T8080-180076

**Re: Request for Proposal T8080-180076
DEVELOPING ENGINEERING EXAMINATION QUESTIONS**

The Consultant hereby agrees:

- a) Not to reproduce, in any form, any portion of the documentation or demonstration considered proprietary by its Owner except for the purpose of preparing a response to this Request for Proposal.
- b) To hold in strictest confidence all Confidential Information received and agrees not to disclose such information to any Person other than those direct members of the proposal response team as necessary.
- c) To take all precautions in dealing with the Information so as to prevent any unauthorized person from having access to such Confidential Information.
- d) at close or early termination of the bid period, it must immediately deliver the Confidential Information to the Contracting Authority as well as every draft, working paper and note that contains any information related to the Confidential Information.
- e) it will be liable for any and all claims, loss, damages, costs, or expenses incurred or suffered by Canada caused by the failure of the Supplier, or by anyone to whom the Supplier discloses the Confidential Information to comply with these conditions.
- f) must require any proposed subcontractor referred to execute a Confidentiality Agreement on the same conditions as those contained in this agreement.

The term "Confidential Information" means all information (whether oral, written or computerized) which is identified orally or in writing as being information of a "confidential", "restricted" or "protected" nature and shall include any excerpts of or copies made of such information and any notes made from the review of such material by the Consultant.

The Contractor agrees that if he/she is in doubt about whether certain information is confidential, he/she shall treat such information as confidential until advised by Transport Canada that it is not confidential. This Confidentiality covenant shall survive the closure of the Request for Proposals and shall remain in full force and effect unless specifically released by Transport Canada.

Supplier's legal name

Signed by its authorized representative and title

Date



TRANSPORT CANADA
APPENDIX "E"
REQUIREMENTS FOR SIGNATURE

**CONTRACTS AND OTHER LEGAL DOCUMENTS
(COMMON-LAW PROVINCES)**

REQUIREMENTS FOR SIGNATURE AND DESCRIPTION OF PARTIES OTHER THAN HER MAJESTY

<u>PARTIES</u>	<u>DESCRIPTION</u>	<u>SIGNATURE</u>
INCORPORATED COMPANY	(exact name), a corporation duly incorporated under the laws of _____ and having a head office and principal place of business at _____.	By the representative(s) duly authorized by a resolution of the board of directors.
PARTNERSHIP (two or more partners)	(1) (name), (occupation), (address) of each acting partner carrying on the partnership business. (2) If the partnership operates under a name other than the name of the partners, state the name and style under which it carries on business.	By one or more partners duly authorized to sign on behalf of partnership.
SOLE PROPRIETORSHIP (single individual enterprise)	(1) (name), (occupation), (address) of individual carrying on business under his/her personal name. (2) If the business is carried out under a "trade name", the trade name may be included after the name of the sole proprietor such as: "Mr. X carrying on business under the name and style of _____".	By the sole proprietor. By the sole proprietor under the trade name: ex. X reg. By: _____ (X's signature)
MUNICIPALITY	(name of municipality) incorporated under the laws of the Province of _____, herein acting through and represented by (name), one of its officers duly authorized under a resolution of its Council adopted on the ____ day of _____, 2____.	By the municipal officer(s) authorized by a resolution of the Municipal Council.

IMPORTANT:

Certain provinces* require that documents bear the seal of the tenant or the bidder in the case of:

- (a) leases in excess of three years or any other disposition of land or an interest therein; and
- (b) offers submitted in response to any invitation to tender which requires that the offer remain outstanding without revocation until the tender validity date has expired.

* *Statute of Frauds*, R.S.O., 1990, c.S.19, ss 1, 2 and 3.

**CONTRACTS AND OTHER LEGAL DOCUMENTS
(PROVINCE OF QUEBEC)**

REQUIREMENTS FOR SIGNATURE AND DESCRIPTION OF PARTIES OTHER THAN HER MAJESTY

<u>PARTIES</u>	<u>DESCRIPTION</u>	<u>SIGNATURE</u>
INCORPORATED COMPANY	(exact name), a corporation whose head office is located at _____, which has been duly incorporated and is validly existing under the laws of Quebec.	By the representative(s) authorized by a resolution of the board of directors.
PARTNERSHIP		
(I) General Partnership two partners or more (persons or legal persons)	Name and type of the partnership contained in the Declaration of Partnership, having its head office at _____, Province of Quebec.	By one or more partner(s) duly authorized to sign on behalf of partnership.
(II) Limited Partnership two partners or more (person or legal persons)	Same as above.	By one or more general partner(s).
(III) Undeclared Partnership two partners or more (persons or legal persons)	(name) and (domicile) of each partner carrying on business in an Undeclared Partnership.	By each of the partners.
SOLE PROPRIETORSHIP (single individual enterprise)	(name), (occupation), (domicile) of sole proprietor carrying on business under his personal name. If the business is carried out under a trade name, the trade name should be included after the name of the individual such as: "Mr. X carrying on business under the name and style of _____".	By the sole proprietor. By the sole proprietor under the trade name Ex. X reg'd By: _____ (Signature of X)
MUNICIPALITY	(name of municipality), incorporated under the laws of the Province of Quebec, herein acting through and represented by (name), one of its officer(s) duly authorized by a resolution of its Council adopted on the _____ day of _____, 2____.	By the municipal officer(s) authorized by resolution of the Municipal Council.

COMMENTS:

In Quebec, the seal is not required and adds nothing to the document. Any such requirement on a blank form can be ignored.



APPENDIX "F"

**INSURANCE CONDITIONS
FOR SERVICE CONTRACTS**

The Vendor shall, at the Vendor's own expense, provide and maintain insurance as indicated here under:

1. DEFINITIONS

1.1. "Contract" means "Purchase Order".

1.2. "Buyer" means those departmental organizations or persons who have been given the responsibility for the contracting process within the Department.

2. INDEMNIFICATION

2.1. The insurance coverage required by the provisions of these Insurance Conditions shall in no way limit the Vendor's responsibility under the indemnification section of the General Conditions of the contract. Any additional coverage the Vendor may deem necessary to fulfill obligations under the indemnity section shall be at the Vendor's own discretion and expense.

3. PERIOD OF INSURANCE

3.1 The insurance coverage shall be in effect from the date of contract award and shall be maintained until the contract work is completed.

4. PROOF OF INSURANCE

4.1. Within fourteen (14) days after acceptance of the Vendor's tender, the Vendor shall deposit with the Buyer, a Certificate of Insurance or certified true copies of all contracts of insurance maintained by the Vendor pursuant to the requirements of these Insurance Conditions.

5. NOTIFICATION

5.1. Each insurance policy shall contain a provision that thirty (30) days prior written notice shall be given to Her Majesty in the event of any material change in cancellation of, or expiration of coverage.

6. INSURED

6.1. Each insurance policy shall insure the Vendor, and shall include as an Additional Named Insured, Her Majesty the Queen in right of Canada as represented by the Minister of Transport.

7. PAYMENT OF DEDUCTIBLE

7.1. The amount of the deductible, if any, shall be borne by the Vendor.

8. PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE

- 8.1. The Vendor shall, concurrently with the execution of this contract, place and maintain at all times during the execution of the work covered by this contract, sufficient public liability and property damage insurance against personal injuries and loss or damage to the property so as to fully cover the Vendor's liability to any firm, person, association, or corporation, resulting from or attributable to the execution of the work.

The Minimum Acceptable Amount is \$2,000,000

- 8.2. The policy shall be issued with a deductible amount of not more than \$1,000 per occurrence applying to property damage claims only.

9. THIRD PARTY LIABILITY INSURANCE FOR VEHICLES AND EQUIPMENT OWNED, LEASED, USED OR OPERATED BY THE VENDOR

- 9.1. The Vendor shall provide an endorsement to the public liability and property damage insurance policy to include third party liability insurance for vehicles and equipment owned, leased, used or operated by the Vendor.

Minimum acceptable amount is \$1, 000,000.

10. TENANTS LEGAL LIABILITY INSURANCE (WHERE APPLICABLE)

- 10.1. The Vendor shall provide an endorsement to the public liability and property damage insurance policy to provide coverage for premises under the Vendor's care, custody and control in a minimum amount of \$500,000.

TRANSPORT CANADA

APPENDIX "G"

INSTRUCTIONS TO TENDERERS

1. DEFINITIONS

In the Invitation to Tender

1.1. "Minister" includes a person acting for, or if the office is vacant, in place of the Minister of Transport and the Minister's successors in the office, and the Minister's or their lawful deputy and any of the Minister's or their representatives appointed for the purpose of the Contract,

1.2. "Tender Closing Time" refers to the date, hour and minute expressed in the local time of the Tendering Office, after which no further tenders will be accepted.

2. TENDER CLOSING

2.1. Sealed tenders will be received at the Tendering Office until the Tender Closing Time stipulated in the Invitation to Tender. Tenders received after Tender Closing Time will not be considered and will be returned unopened.

2.2. Notwithstanding the foregoing, the Minister reserves the right to postpone tender closing, at which time all tenderers will be advised formally of the new date, hour and minute.

3. TENDER OPENING

In the case of a Public Tender Opening

3.1. Tenders are opened in public at a location specified in the Invitation to Tender as soon as possible after Tender Closing Time unless specific instructions to the contrary regarding tender opening are included in the Invitation to Tender.

3.2. Where only one tender is received, the Minister reserves the right not to disclose the amount of the tender at the public opening. The amount of the tender will be made public if a contract is awarded.

4. OFFICIAL TENDER FORMAT

Tenders must be submitted in the format provided and must be properly executed and submitted as instructed.

5. QUESTIONS DURING TENDER PERIOD

Questions during the tender period must be submitted in writing.

6. REVISION OF TENDERS

Tenders may be revised by letter or printed telecommunication provided that revisions are received before the Tender Closing Time. Any change resulting in an increase in the tender price must be supported by a suitable increase in the tender security, if applicable.

7. TENDER SECURITY

7.1. If specified in the Invitation to Tender, the tenderer will provide tender security, at the tenderer's own cost, in accordance with the document entitled "Tender Security Requirements".

7.2. All tender security will be returned except that of the successful tenderer, which will be retained until the successful tenderer has provided contract security in accordance with Article 8.

8. CONTRACT SECURITY

8.1. If specified in the Invitation to Tender, the successful tenderer will provide contract security, at the tenderer's own cost, within 14 days of contract award in accordance with the document entitled "Contract Security Requirements".

8.2. Where contract security is a requirement, all tenders must be accompanied by evidence from a bank, financial institution or Surety Company that the required contract security will be provided upon notification of contract award to the successful tenderer.

9. INSURANCE

9.1. If specified in the Invitation to Tender, the successful tenderer will be required to provide contract insurance, at the tenderer's own cost, within 14 days of contract award in accordance with the document entitled "Insurance Conditions".

9.2. Where insurance is a requirement, all tenders must be accompanied by confirmation from the tenderer's insurance company that the required insurance will be available upon contract award.

10. FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY

The Federal Contractors Program for Employment Equity applies to contracts for the provision of all goods and services, but not to the purchase or lease of real property or to construction contracts. Where a tender for the provision of goods or services is valued at \$200,000 or more and the tenderer's organization employs 100 or more permanent full-time or permanent part-time employees, it is mandatory that the requirements contained in the attached documentation on the Federal Contractors Program for Employment Equity be met or the tender will not be considered.

11. SIGNING OF DOCUMENTS

See attached form entitled "Requirements for Signature and Description of Parties Other Than Her Majesty".

12. TENDER VALIDITY PERIOD

12.1. Unless otherwise specified in the Invitation to Tender, tenders shall remain firm and in effect for a period of 90 days following Tender Closing Time.

12.2. Notwithstanding Article 12.1, in the event the Minister deems it necessary to extend the 60-day period for acceptance of tenders for a further 60-day period, the Minister shall, prior to the expiration of such period, notify the tenderer by written notice to that effect, whereupon the tenderer shall have 15 days from the date of receipt of such written notice to, in writing, either accept the requested extension as referred to in the ministerial notice or withdraw the tender.

12.3. In the event tender security was provided and in the event of withdrawal of tender as herein provided, the tender security shall be reimbursed or returned without penalty or interest. In the event the tenderer accepts the requested extension, the acceptance period shall be extended as referred to in the ministerial notice. In the event the tenderer does not respond to the ministerial notice, the tenderer shall be conclusively deemed to have accepted the extension referred to in the ministerial notice.

13. INCOMPLETE TENDERS

13.1. Incomplete or conditional tenders will be rejected.

13.2. Tenders that omit any mandatory requirements specified in the Invitation to Tender will be rejected.

13.3. In the event that tender security is required and is not provided with the tender, the tender will be rejected.

14. REFERENCES

The Minister reserves the right, before awarding the contract, to require the successful tenderer to submit such evidence of qualifications as the Minister may deem necessary, and will consider evidence concerning the financial, technical and other qualifications and abilities of the tenderer.

15. LOWEST TENDER NOT NECESSARILY ACCEPTED

“Lowest or any bid not necessarily accepted.

Canada reserves the right to:

- a. Reject any or all bids received in response to the bid solicitation;
- b. Cancel the bid solicitation at any time;
- c. Reissue the bid solicitation; and
- d. Negotiate with the sole responsive bidder to ensure best value to Canada.

By submitting a bid, the Bidder acknowledges Canada's rights under this section and waives any claim, or cause of action, against Canada by reason of Canada's exercise of its rights under this section, whether such claim or cause of action arises in contract, negligence, or otherwise”.

TRANSPORT CANADA

APPENDIX "H"

PROGRAM FOR EMPLOYMENT EQUITY

**FEDERAL CONTRACTORS PROGRAM
FOR EMPLOYMENT EQUITY
AN IMPORTANT NOTICE FOR BIDDERS**

The Federal Contractors Program (FCP) requires that some organizations bidding for federal government contracts make a formal commitment to implement employment equity*, as a precondition to the validation of their bids. Your organization is covered by this program:

1. IF YOU ARE BIDDING FOR A GOODS AND/OR SERVICES CONTRACT WORTH \$200,000 OR MORE AND;

2. IF YOU HAVE 100 OR MORE PERMANENT PART-TIME AND/OR PERMANENT FULL-TIME EMPLOYEES ACROSS CANADA

If both conditions apply, you must enclose with your bid either a signed Certificate of Commitment or, if you had submitted one earlier, quote the official certificate number assigned by the FCP. **Please note that, without a signed Certificate of Commitment, or a Certificate number, your bid is liable to be rejected.**

Please complete the form below. In cases where the FCP requirements do not apply please check the applicable box. **The completed form must always be returned with your bid.**

*The criteria and other information about the Federal Contractors Program for Employment Equity, if not enclosed, are available upon request through your contracting officer.

**PROGRAMME DE CONTRATS FÉDÉRAUX
POUR L'ÉQUITÉ EN MATIÈRE D'EMPLOI
AVIS IMPORTANT AUX SOUMISSIONNAIRES**

En vertu du Programme de contrats fédéraux (PCF), certaines entreprises qui soumissionnent des marchés fédéraux doivent s'engager formellement à mettre en oeuvre un programme d'équité en matière d'emploi* avant que leur soumission puisse être validée. Votre organisation est assujettie au programme:

1. SI VOUS SOUMISSEZ UN MARCHÉ DE BIENS OU DE SERVICES D'UNE VALEUR DE 200 000 \$ OU PLUS ET

2. SI ELLE COMPTE 100 EMPLOYÉS PERMANENTS OU PLUS, À TEMPS PARTIEL OU À TEMPS PLEIN, À L'ÉCHELLE NATIONALE

Si les deux conditions sont remplies, vous devez joindre une attestation d'engagement dûment signée ou, si vous en avez déjà présenté une, indiquer le numéro officiel qui vous a été attribué dans le cadre du PCF. **Veillez noter que les soumissions non accompagnées d'une attestation signée ou d'un numéro d'attestation pourront être rejetées.**

Veillez remplir le formulaire ci-dessous. Lorsque que le PCF ne s'applique pas, veuillez cocher la case pertinente. **Le présent formulaire doit toujours être joint à votre soumission.**

*Si les critères d'application du PCF et les renseignements généraux ne sont joints aux présentes, vous pouvez les obtenir sur demande auprès de votre agent de négociation des marchés.

NOTE - NOTA

ALL BIDDERS MUST CHECK THE APPLICABLE BOX(ES) BELOW.
TOUS LES SOUMISSIONNAIRES DOIVENT COCHER LES CASES PERTINENTES CI-DESSOUS.

FAILURE TO COMPLETE AND RETURN THIS FORM WILL RENDER BIDS LIABLE TO BE REJECTED.
SI VOUS OMETTEZ DE REMPLIR ET DE RENVOYER LE PRÉSENT FORMULAIRE VOTRE SOUMISSION
POURRA ÊTRE REJETÉE.

- COPY OF SIGNED CERTIFICATE OF COMMITMENT IS ENCLOSED
- DOUBLE DE L'ATTESTATION D'ENGAGEMENT EST CI-JOINT.

OR - OU

- CERTIFICATE NUMBER IS _____
- LE NUMÉRO OFFICIEL DE L'ATTESTATION EST _____

OR - OU

PROGRAM REQUIREMENTS DO NOT APPLY FOR REASON CHECKED BELOW:
LE PROGRAMME NE S'APPLIQUE PAS POUR LES RAISONS SUIVANTES:

- BID IS LESS THAN \$200,000;
- LA VALEUR DE LA SOUMISSION EST INFÉRIEURE À 200 000 \$;

- THIS ORGANIZATION HAS FEWER THAN 100 PERMANENT PART-TIME AND/OR FULL TIME EMPLOYEES;
- VOTRE ORGANISATION COMPTE MOINS DE 100 EMPLOYÉS PERMANENTS, À TEMPS PARTIEL OU À TEMPS PLEIN;

- THIS ORGANIZATION IS SUBJECT TO THE EMPLOYMENT EQUITY ACT.
- VOTRE ORGANISATION EST ASSUJETTIE À LA LOI SUR L'ÉQUITÉ EN MATIÈRE D'EMPLOI.

NAME AND ADDRESS OF ORGANIZATION _____

NOM ET ADRESSE DE L'ORGANISATION _____

FEDERAL CONTRACTORS PROGRAM

INFORMATION FOR SUPPLIERS AND CONTRACTORS

OBJECTIVE

The objective of the Federal Contractors Program (FCP) is to ensure that suppliers of goods and services who do business with the Government of Canada achieve and maintain a fair and representative workforce in compliance with the FCP Criteria for Implementation and the Employment Equity Act.

DESCRIPTION

Suppliers of goods and services to the federal government that

- have a national workforce of 100 employees or more and
- are bidding on contracts valued at \$200,000.00 or more

are required to commit themselves to implementing employment equity as a condition of their bid. Upon bidding on a contract, the supplier of goods and services signs a *Certificate of Commitment* and receives a Certificate Number from Human Resources Development Canada (HRDC) Labour.

Once an organization's bid for a government contract has been accepted and meets the above requirements, the organization becomes a federal contractor subject to the FCP. Federal contractors are randomly selected for a compliance review after one year in the Program. The FCP is administered by HRDC Labour.

REQUIREMENTS

The FCP requires contractors to implement employment equity measures consistent with the 11 FCP Criteria for Implementation. Such measures require the identification and removal of barriers to the selection, hiring, promotion, and training of members of the designated groups; that is, women, Aboriginal peoples, persons with disabilities, and members of visible minorities.

Contractors must also take steps to improve the employment status of these designated groups by increasing their participation in all levels of employment within their organizations. **Failure to subsequently comply with prescribed employment equity obligations will result in the loss of opportunity to bid on government contracts.**

OPERATION

There are three essential steps in the implementation and operation of the FCP for employment equity:

- Certification
- Implementation
- Compliance Review

The timing of each step varies on a case-by-case basis and is not prescribed by the Program.

Step 1: Certification

Organizations that have a national workforce of 100 employees or more and who wish to, or are invited to, bid on federal government contracts valued at \$200,000.00 or more, must first certify in writing their commitment to implement employment equity according to specific criteria.

Step 2: Implementation

Upon having been awarded a federal government contract valued at \$200,000.00 or more, contractors must implement employment equity in keeping with the terms and conditions of the FCP Criteria for Implementation. Essential components of this process are the development and implementation of a plan of action and the means to monitor the following activities:

- Removal of discriminatory barriers to the employment and promotion of designated groups, including the elimination or modification of all human resources practices and systems that cannot be shown to be bona fide occupational requirements;
- Improvement in the participation of designated group members throughout the contractor's organization through hiring, training and promotion;
- Introduction of special measures and the establishment of internal goals and timetables towards the achievement of employment equity through recruitment, hiring, training, and promotion of designated group members, and through the provision of reasonable accommodations to enable members of such groups to compete with others on an equal basis; and
- Retention of records regarding the employment equity implementation process for assessment by HRDC Labour officers.

Step 3: Compliance Review

In-depth compliance reviews will be conducted by HRDC Labour officers to

- review the records and documents kept by contractors;
- assess compliance with the FCP Criteria for Implementation and the results obtained;
- determine the extent of efforts made by contractors on behalf of designated groups; and
- measure the performance levels attained by contractors.

If the compliance review results are positive, the process is complete and the contractor is so informed.

If the compliance review results are negative, the contractor is so informed and is expected to initiate remedial action for review within a prescribed time limit not to exceed 12 months.

When a contractor is found in non-compliance with the Program, appeals and sanctions may follow. The timing of each step is dependent upon individual circumstances.

APPEALS AND SANCTIONS

The contractor has the right to appeal an unfavorable finding resulting from a compliance review to the Minister of Labour. In that instance, an independent review will be undertaken to study the findings of the original compliance review and advise the Minister of Labour. In the event that the results of the independent review indicate a failure to comply, sanctions will be applied including the contractor's exclusion from bidding on federal government contracts.

FCP CRITERIA FOR IMPLEMENTATION

The FCP Criteria for Implementation provide contractors with a framework for planning and implementing an effective employment equity program within their organizations. **The following summaries of each of the criteria are intended as brief points of reference.** For detailed descriptions of each of the FCP Criteria for Implementation, please refer to the [Federal Contractors Program-Criteria for Implementation](http://www.hrsdc.gc.ca/eng/labour/equality/fcp/criteria.shtml) on the HRDC website at the following address:

<http://www.hrsdc.gc.ca/eng/labour/equality/fcp/criteria.shtml>

Criterion 1: Communication of Employment Equity to Employees

Contractors can fulfill this criterion by communicating with employees, through the Chief Executive Officer or President, about

- a corporate objective to achieve employment equity for the four designated groups (women, Aboriginal peoples, persons with disabilities, and members of visible minorities);
- the measures the organization has undertaken or will undertake to develop an employment equity program and meet the corporate objective; and
- progress toward implementation of employment equity.

Criterion 2: Assignment of a Senior Official to be Responsible for Employment Equity

Contractors can fulfill this criterion by assigning a senior official to be responsible for employment equity. It is important that the senior official given this responsibility be known and respected throughout the organization, with sufficient authority and available resources to effect necessary changes. The responsibilities of the senior official are to

- demonstrate the commitment among senior management to employment equity;
- select staff members to comprise an Employment Equity Committee;
- encourage union representatives to participate; and
- ensure that the other 10 FCP Criteria for Implementation are carried out with the support of the above-noted individuals.

Criterion 3: Collection and Maintenance of Workforce Information

Contractors can fulfill this criterion by collecting and recording the data for all employees and each of the designated group members. The data to be collected includes

- internal representation data (stock data), collected via a self-identification survey. For accurate data collection and further analysis, the organization is required to achieve a high response rate to the survey;
- hiring, promotions, and terminations data (flow data) that will allow the contractor to track the progress of employment equity over time; and
- salary data, including top and bottom salary ranges.

Criterion 4: Workforce Analysis

Contractors can fulfill this criterion by

- analyzing the organization's internal representation data (stock data) generated in criterion 3;
- developing a narrative summary of the results of the analysis; and
- incorporating the data analysis and narrative summary (workforce analysis) into the Employment Equity Plan (criterion 7).

Criterion 5: Employment Systems Review

Contractors can fulfill this criterion by

- analyzing the hiring, promotions, and terminations data (flow data) generated in criterion 3;
- conducting an intensive review of all formal and informal employment systems, policies and practices;
- modifying any policies and practices that might discourage designated group members from applying for employment or participating fully in the organization's opportunities and benefits; and
- demonstrating that new policies and procedures are practiced at all levels of the organization.

Criterion 6: Establishment of Goals

Contractors can fulfill this criterion by establishing

- numerical goals to address any deficiencies identified in the workforce analysis (criterion 4) and in the flow data analysis in the employment systems review (criterion 5); and
- non-numerical (qualitative) goals to address any deficiencies identified in the employment systems review (criterion 5).

Criterion 7: Development of an Employment Equity Plan

Contractors can fulfill this criterion by developing, implementing, and revising an Employment Equity Plan that contains all the components of the FCP Criteria for Implementation.

The objective of the Employment Equity Plan is to guide the organization toward meeting its employment equity goals. It should contain a sequence of tasks and activities to be assigned to individuals or units within the organization, scheduled according to a definite timetable.

The plan should be viewed as a working document, and as such, be reviewed regularly. Changes to the plan should be made as needed when a goal or activity needs to be altered. The plan should form an integral part of the organization's overall operational planning process.

Criterion 8: Adoption of Positive Policies and Reasonable Accommodation

Contractors can fulfill this criterion by taking proactive measures within their organizations to accelerate the entry, development, and promotion of designated group members. The aim of these measures is to redress past inequities and directly increase the representation of designated groups in the organization's workforce.

Criterion 9: Establishment of a Positive Work Environment

Contractors can fulfill this criterion by creating a corporate environment that not only encourages the introduction of new employees from designated groups, but that is also conducive to the movement of these employees from one occupational level in the organization to another.

Criterion 10: Adoption of Monitoring Procedures

Contractors can fulfill this criterion by including in the organization's *Employment Equity Plan*, a plan to regularly monitor and evaluate the organization's employment equity program, and retain all relevant statistics and documentation.

Criterion 11: Authorization to Enter Premises

Contractors can fulfill this criterion by permitting an on-site review, conducted by an HRDC Labour officer, in order to determine the organization's progress toward achieving a representative workforce that meets the conditions of the FCP.

Human Resources
Development
Canada

Développement des ressources
humaines Canada

OFFICIAL USE
ONLY
CERTIFICATE
NO.

Labour Branch

Direction générale du travail

Federal Contractors
Program

Programme de contrats fédéraux

Certificate of Commitment to Implement Employment Equity

ORGANIZATION			
Legal name of organization		Parent company is located outside Canada	
Operating Name (if different)		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Type of Industry (sector, purpose, etc.)		Total no. employees in Canada (Full-Time/Part-Time) ▶	
HEAD OFFICE			
Address (street, building, etc.)		City	Province
		Postal Code	
		Telephone	Fax
EMPLOYMENT EQUITY CONTACT			
Name		Title	
Telephone	Email		
CERTIFICATION			
<p>The above-named organization:</p> <ul style="list-style-type: none"> • having a workforce of 100 or more permanent full-time and/or permanent part-time employees in Canada, AND • intending to bid on, or being in receipt of, a Government of Canada goods or services contract valued at \$200,000.00 or more, <p>hereby certifies its commitment to implement and/or renew its commitment to employment equity, if awarded the aforementioned contract, in keeping with the Criteria for Implementation under the Federal Contractors Program for Employment Equity.</p>			
SIGNATORY			
<p>NOTE: If the person who signs this certificate on behalf of the organization named above is NOT the Chief Executive Officer, it is understood that they hold a senior management position with the authority to implement Employment Equity in the organization.</p>			
Name (print)		Title	
Signature		Date	
RETURN INSTRUCTIONS			

IMPORTANT

- You must include the *signed original* of this form with your bid.
- You must also fax a *copy* of the signed form to Labour Branch, at (819) 953-8768.

Criteria for Implementation

1. Communication of Employment Equity to Employees
2. Assignment of Senior Official to be Responsible for Employment Equity
3. Collection of Workforce Information
4. Workforce Analysis
5. Employment Systems Review
6. Establishment of Goals
7. Development of an *Employment Equity Plan*
8. Adoption of Positive Policies and Reasonable Accommodation
9. Establishment of a Positive Work Environment
10. Adoption of Monitoring Procedures
11. Authorization to Enter Premises

Please refer to the document *Information for Suppliers and Contractors* for more details about the Federal Contractor's Program (FCP) Criteria for Implementation.

TRANSPORT CANADA

APPENDIX "I"

BIDDER'S DECLARATION Clauses and Conditions under the Government of Canada Integrity Regime



Transport
Canada

Transports
Canada

File No.: T8080-180076

Dear Bidder/Proposer:

1. The Government of Canada (GC) is committed to open, fair and transparent procurement and real property transactions. A government-wide Integrity Regime has been put in place to ensure that the Government does business with ethical suppliers in Canada and abroad. For more information please see the Integrity Regime website: <http://www.tpsgc-pwgsc.gc.ca/ci-if/ci-if-eng.html>

2. Integrity Regime Bidder's Declaration form:

The bidder/proposer is required to have reviewed the resulting clauses of this solicitation that include the GC Integrity Regime conditions (Appendix #) and also the following clause explaining the specific condition when the Integrity Regime Bidder Declaration form is required to be completed by the bidder/proposer:

"Declaration of Convicted Offences. Where a Bidder or its Affiliate is unable to certify that it has not been convicted of any of the offences referenced under the Canadian Offences Resulting in Legal Incapacity, the Canadian Offences and the Foreign Offences subsections, the Bidder must send the completed Bidder's Declaration Form.."

- [clause 10 of the 2003 \(2010-10-07\) Standard Instructions - Goods or Services - Competitive Requirement](#)

3. After review of the above (item #2), it is the **responsibility of the bidder/proposer** to decide if it's necessary to complete the Integrity Regime Bidder Declaration form. The **bidder/proposer must** send the completed form **to Public Services & Procurement Canada (PSPC) through the mail, using a sealed envelope to the attention of:**

Integrity, Departmental Oversight Branch,
Public Works and Government Services Canada/ **Public Services & Procurement Canada**
11 Laurier Street
Place du Portage, Phase III, Tower A, 10A1 – room 105
Gatineau (Québec) Canada, K1A 0S5.

Canada



Transport
Canada

Transports
Canada

Protected "B" *when completed*

Complete legal name of company:

Company's address:

Company's procurement business number (PBN):

Bid number:

Date of the bid: (YY-MM-DD)

Have you ever, as the bidder, your affiliates or as one of your directors, been convicted or have pleaded guilty of an offence in Canada or similar offence elsewhere under any of the following provisions:

Financial Administration Act

- 80(1) d): False entry, certificate or return
- 80(2): Fraud against Her Majesty
- 154.01: Fraud against Her Majesty

Yes [] / No []

Comments:

Criminal Code

- 121: Frauds on the government and contractor subscribing to election fund
- 124: Selling or Purchasing Office
- 380: Fraud - committed against Her Majesty
- 418: Selling defective stores to Her Majesty

Yes [] / No []

Comments:

In the last 3 years, have you, as the bidder, your affiliates or one of your directors, been convicted or have pleaded guilty of an offence in Canada or elsewhere under any of the following provisions:

Criminal Code

- 119: Bribery of judicial officers,
- 120: Bribery of officers
- 346: Extortion
- 366 to 368: Forgery and other offences resembling forgery
- 382: Fraudulent manipulation of stock exchange transactions
- 382.1: Prohibited insider trading
- 397: Falsification of books and documents
- 422: Criminal breach of Contract
- 426: Secret commissions
- 462.31: Laundering proceeds of crime
- 467.11 to 467.13: Participation in activities of criminal organization

Yes [] / No []

Comments:

Competition Act

- 45: Conspiracies, agreements or arrangements between competitors
- 46: Foreign directives
- 47: Bid rigging
- 49: Agreements or arrangements of federal financial institutions
- 52: False or misleading representation
- 53: Deceptive notice of winning a prize

Yes [] / No []

Comments:

Corruption of Foreign Public Officials Act

- 3: Bribing a foreign public official
- 4: Accounting
- 5: Offence committed outside Canada

Yes [] / No []

Comments:

Controlled Drugs and Substances Act

- 5: Trafficking in substance
- 6: Importing and exporting
- 7: Production of substance

Yes [] / No []

Comments:

Other acts

- 239: False or deceptive statements of the *Income Tax Act*
- 327: False or deceptive statements of the *Excise Tax Act*

Yes [] / No []

Comments:

Additional comments:

This space is for additional comments

This space is for additional comments

This space is for additional comments

I, (name) _____, (position) _____, of (company name – bidder) _____ authorize Public Works and Government Services Canada (PWGSC) to collect and use the information provided, in addition to any other information that may be required to make a determination of ineligibility and to publicly disseminate the results.

I, (name) _____, (position) _____, of (company name – bidder) _____ certify that the information provided in this form is, to the best of my knowledge, true and complete. Moreover, I am aware that any erroneous or missing information could result in the cancellation of my bid as well as a determination of ineligibility/suspension.

Completed Declaration Forms should be sent to PWGSC. To send through mail, please use a sealed envelope marked 'Protected B' to the attention of:

Integrity, Departmental Oversight Branch,
Public Works and Government Services Canada
11 Laurier Street
Place du Portage, Phase III, Tower A, 10A1 – room 105
Gatineau (Québec) Canada, K1A 0S5



FROM - EXPÉDITEUR
ADDRESS - ADRESSE
TENDER FOR - SOUMISSION POUR DEVELOPING ENGINEERING EXAMINATION QUESTIONS
NUMBER - NUMÉRO T8080-180076
DATE DUE - DÉLAI January 25, 2019, 14:00 HRS (2:PM) EST (Eastern Standard Time)

TENDER - SOUMISSION

TENDER RECEPTION

Transport Canada
Mail Operations (Food Court Level)
Place de Ville Tower "C"
330 Sparks Street
Ottawa , Ontario (K1A 0N5)