

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:

Bid Receiving
PWGSC
33 City Centre Drive
Suite 480
Mississauga
Ontario
L5B 2N5
Bid Fax: (905) 615-2095

REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION

**Proposal To: Public Works and Government
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Title - Sujet Diesel Engine Trainers	
Solicitation No. - N° de l'invitation W2037-140033/B	Date 2014-02-18
Client Reference No. - N° de référence du client W2037-140033	
GETS Reference No. - N° de référence de SEAG PW-\$TOR-212-6549	
File No. - N° de dossier TOR-3-36091 (212)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-03-31	Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Shaw, Marian	Buyer Id - Id de l'acheteur tor212
Telephone No. - N° de téléphone (905) 615-2065 ()	FAX No. - N° de FAX (905) 615-2060
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE CFSEME Veh Coy/Tool Crib CFB Borden 221 Craftsman Road, Bldg A-254 Borden Ontario LOM 1C0 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution

Public Works and Government Services Canada
Ontario Region
33 City Centre Drive
Suite 480
Mississauga
Ontario
L5B 2N5

Delivery Required - Livraison exigée See Herein	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

This bid solicitation cancels and supersedes previous bid solicitation number W2037-140033/A dated 19 September 2013, with a closing date of 13 November 2013, at 2:00 p.m. EST. A debriefing or feedback session will be provided upon request to bidders/suppliers who bid on the previous solicitation.

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PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with this bid solicitation.

2. Requirement

The requirement is detailed under Article 2 of the resulting contract clauses

3. Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days
Insert: ninety (90) days

1.1 SACC Manual Clauses

B1000T (2007-11-30) Condition of Material

2. Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.

3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than ten (10) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

4. Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the bidders.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

Canada requests that bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (3 hard copies)

Section II: Financial Bid (2 hard copies)

Section III: Certifications (1 hard copy)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

In their technical bid, bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

1.1 Exchange Rate Fluctuation

C3011T (2010-01-11), Exchange Rate Fluctuation

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

1.1 Technical Evaluation

1.1.1 Mandatory Technical Criteria

See Annex C, Technical Evaluation Criteria.

1.2 Financial Evaluation

1.2.1 Mandatory Financial Criteria

Bidders must submit their financial bid in Canadian Funds in accordance with the Basis of Payment, with their bid at time of bid closing.

1.2.2 Evaluation of Price

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

- 1.2.3 The evaluated price will be calculated using the Bidder's firm unit prices as provided in Annex B, multiplied by the total quantity for each line item. The evaluated price will be the total aggregate price of the extended prices for all line items.

2. Basis of Selection

2.1 Basis of Selection - Mandatory Technical Criteria

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and documentation to be awarded a contract.

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default, if any certification made by the Bidder is found to be untrue whether during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with this request will also render the bid non-responsive or will constitute a default under the Contract.

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

1.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from Human Resources and Skills Development Canada (HRSDC) - Labour's website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](#)" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement applicable to this Contract.

2. Requirement

The Contractor must provide the Diesel Engine Trainers in accordance with the Requirement at Annex A.

3. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

3.1 General Conditions

2010A (2013-04-25) General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

3.2 Supplemental General Conditions

4001 (2013-01-28) Hardware Purchase, Lease and Maintenance, apply to and form part of the Contract.

4. Term of Contract

4.1 Delivery Date

All the deliverables must be received on or before 29 August 2014.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:
Marian Shaw
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
Ontario Region Directorate
33 City Centre Drive, Suite 480
Mississauga, Ontario L5B 2N5

Telephone: (905) 615-2065
Facsimile: (905) 615-2060
E-mail address: marian.shaw@pwgsc-tpsgc.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.

5.2 Project Authority

The Project Authority for the Contract is:

(To be provided at contract award).

The Project Authority is the representative of the department or agency 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.

5.3 Contractor's Representative

Name: _____

Title: _____

Telephone No. _____

Facsimile No. _____

E-mail address: _____

6. Payment

6.1 Basis of Payment - Firm Price, Firm Unit Price(s) or Firm Lot Price(s)

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit price(s), as specified in Annex B for a cost of \$ _____ (*amount to be inserted at contract award*). Customs duties are included and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.2 Limitation of Price

SACC Manual clause C6000C (2011-05-16) Limitation of Price

6.3 Single Payment

SACC Manual clause H1000C (2008-05-12) Single Payment

7. Invoicing Instructions

7.1 The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

7.2 Invoices must be distributed as follows:

- (a) The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
- (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

8. Certifications

8.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

9. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

10. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the supplemental general conditions 4001 (2013-01-28) Hardware Purchase, Lease and Maintenance;
- (c) the general conditions 2010A (2013-04-25) - Goods (Medium Complexity);
- (d) Annex A Requirement;
- (e) Annex B, Basis of Payment
- (f) the Contractor's bid dated _____

11. SACC Manual Clauses

A9068C (2010-01-11) Government Site Regulations

B1501C (2006-06-16) Electrical Equipment

12. Insurance

SACC Manual Clause G1005C (2008-05-12) Insurance

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Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

tor212

Client Ref. No. - N° de réf. du client

W2037-140033

File No. - N° du dossier

TOR-3-36091

CCC No./N° CCC - FMS No/ N° VME

ANNEX A

REQUIREMENT

Diesel Engine Trainers

The document is attached separately - 3 pages.

ANNEX B**BASIS OF PAYMENT**

Prices are firm, all inclusive in Canadian funds, FOB destination. Customs duties are included and Applicable Taxes are extra.

Item No.	Description	Qty	U of I	Firm Unit Price	Extended Price
01	For the supply and delivery of Diesel Engine Trainers , in accordance with the specifications detailed in Annex A, <u>and any other item or service required to complete the system as specified in Annex A.</u> Manufacturer: _____ Make and Model: _____	12	EA	\$	\$
02	Delivery charges to destination for total quantity of above item, <i>if applicable..</i>	Lot	Lot		\$
	Sub-Total				\$
	GST / HST Extra (as applicable)				\$
	Total				\$

Delivery Date

All the deliverables must be received on or before 29 August 2014.

The delivery date offered is _____ (as specified by the Bidder) taking into account the above mandatory delivery date.

Solicitation No. - N° de l'invitation

W2037-140033/B

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

tor212

Client Ref. No. - N° de réf. du client

File No. - N° du dossier

CCC No./N° CCC - FMS No/ N° VME

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ANNEX C

TECHNICAL EVALUATION CRITERIA

The document is attached separately - 4 pages.

ANNEX A
Requirement

RCEMES Diesel Engine Trainers

1. Objective

To procure twelve (12) Diesel Engine Trainers in support of the Royal Canadian Electrical and Mechanical Engineering School (RCEMES) training.

2. Background

Through evaluation of its training initiatives and the future objectives it has forecasted, the Training Establishment is continuing to transform the way it trains Vehicle Technicians.

RCEMES, Vehicle Company presently utilizes various diesel engine trainers to deliver engine and powertrain management training for Vehicle Technicians. These simulators are used by instructional staff to demonstrate maintenance procedures and to instruct the construction and operation of diesel engines and its components.

Students use the diesel engine trainers to perform maintenance tasks including testing, diagnosing and troubleshooting of its mechanical, electrical and fuel systems.

RCEMES presently has insufficient trainers to deliver training. The class sizes of 24 and the present available diesel engine trainers limit RCEMES's capability to deliver training in accordance with its training plan.

3. Deliverables

The contractor must provide twelve (12) heavy duty diesel engine trainers, new or reconditioned, meeting the specifications provided at the time of delivery. Trainers must have the ability to demonstrate the operation and functionality of the following makes and models of engines:

3 x Caterpillar Model C9
3 x Mercedes Model OM502LA
3 x Cummins Model QSL 365
3 x Cummins ISX L-6

3.1 Technical Specifications

3.1.1 Heavy Duty Diesel Engine Trainers

- 1) Must be an Original Equipment Manufacture (OEM) Heavy Duty (HD) Diesel engine.
- 2) Must be able to connect and interface with Original Equipment Manufacture (OEM) or aftermarket diagnostic electronic service tools.
- 3) Must be completely operational, engine must operate and function as if in a real vehicle.
- 4) Must have a master control panel with a Diagnostic Link Connector (DLC), specifically a 9 pin J1939 connector, and a Malfunction Indicator Light (MIL).
- 5) Must have a noiseless exhaust gas system.
- 6) Must include a radiator and cooling system.
- 7) Must include an air intake system with turbo charging and filters.
- 8) Must include a fuel tank and filters.

- 9) Must include a lubrication system and filters.
- 10) Must include an OEM cold start system if applicable to engine model.
- 11) Must include an OEM engine retarder if applicable to engine model.
- 12) Must include a 12 or 24 volt electrical system with batteries.
- 13) Must have a complete and operable electrical/electronic system.
- 14) Electrical circuits must be fuse protected.
- 15) Must provide the user with real life "hard" system faults. "Intermittent" faults are optional.
- 16) Must include OEM service manuals in electronic format.
- 17) Must include an OEM engine management system.
- 18) Must include a Diesel Particulate Filter when applicable to the engine model year.
- 19) Must provide electronic fault insertion.
- 20) Must be mounted on a heavy duty frame with steering castors with locking capability. The heavy duty frame must be of sufficient construction to support the weight of the trainer without sagging, cracking or distortion. The contractor will be responsible to design and construct the heavy duty frame in accordance with Industry Standards such as the Canadian Institute of Steel Construction (CISC) Code of Standard Practice for structural steel.
- 21) Must provide users with engine data information in electronic format.
- 22) Must display, as a minimum, the following functions either in a single display or separately:
 - a. Engine oil pressure.
 - b. Engine coolant temperature.
 - c. Fuel level.
 - d. Electrical system voltage.
 - e. Engine rotations per minute (RPM).

3.2 Performance Tasks:

3.2.1 Instructor

Instructors must have the ability to fault the training simulators so trainees can practice diagnosing and troubleshooting procedures. Specifically, instructors must be able to:

- 1) Activate faults in the training simulators electronically or mechanically
- 2) Operate and demonstrate the trainer system as if in an actual vehicle

3.2.2 Student

Students at all levels will use the diesel engine trainers for its designed purpose. Students must be able to:

- 1) Perform enhanced manipulation of the trainer components
- 2) Diagnose and troubleshoot the fuel system
- 3) Diagnose and troubleshoot the engine management system

- 4) Diagnose and troubleshoot the electrical/electronic system
- 5) Obtain electronic parameters using diagnostic equipment
- 6) Obtain technical data and information from the trainers
- 7) Perform testing procedures of all systems on the trainers
- 8) Inspect and maintain components on the trainers

3.3 Performance Requirements

The training simulators must uniformly provide all users with the ability to:

- 1) Manipulate or move the training aid. As a minimum the user must be able to place the training simulators in a different location as deemed necessary to facilitate training. Large training simulators must have wheels for easy manoeuvrability.
- 2) Test components. The user must have the ability to exercise test procedures as outlined in reference manuals. The user must have the capability to use diagnostic test equipment. Testing of components is directed from RCES and is conducted in accordance with the Training Plan.
- 3) Name components in both official languages. The user must have the authorization to change the name plates or decals in either official language as may be required in future use.
- 4) Maintenance. Users must be able to manipulate and maintain components as required.

3.4 Additional Requirements

- 1) All diesel engine trainers must meet present industry emission standards.
- 2) Manuals and engine data information should be supplied in both English and French but in the event that these products are not available in both official languages, the supplier must grant the rights to translate the documents and existing publications to Canada.
- 3) Diesel engine trainers must be fully operable without relying on infrastructure resources.
- 4) Must provide the user with active and stored diagnostic trouble code information.
- 5) Must include protective covers for all moving parts to prevent personal injury and eliminate hazards.
- 6) Must include protective covers on high temperature components.
- 7) Must include a keyed ignition system.

3.5 Warranty

A minimum one (1) year on-site warranty on parts, labour, and manufacturer defects is required. The contractor will be required to address urgent warranty concerns within two (2) business days and all other concerns within five (5) business days.

4. Constraints

- 4.1 The engine trainers must be interoperable with existing space and infrastructure located at the RCES School. This includes:
 - Dimensions: Must be no more than 78" (198 cm) tall, 74" (188 cm) wide and 102" (259 cm) in length.
- 4.2 All deliverables must be received on or before 29 August 2014.

ANNEX C
Technical Evaluation

MANDATORY REQUIREMENTS

The Bidder's proposed equipment must meet the technical specifications detailed at Annex A. Proposals must be supported by proper documentation to support each mandatory requirement. Any proposals not meeting all of the mandatory requirements will be given no further consideration.

The Bidder must submit with their proposal at time of bid closing supporting technical documents such as: technical specifications, literature, brochures or other similar supporting documentation, which clearly demonstrates that the Bidder's proposed equipment meets each of the specifications at Annex A. This information will be used to verify compliance with Annex A. If any of the equipment specification is not identified in the Bidder's existing technical documents, the Bidder must address separately, in their proposal, how it meets that particular equipment specification.

		Identify where the supporting documentation is located in the bid package (Page number(s))
1	Technical Specifications	
1.1	Must have the ability to demonstrate the operation and functionality of the following makes and models of engines: <ul style="list-style-type: none"> • 3 x Caterpillar model C9 • 3 x Mercedes Model OM502LA • 3 x Cummins Model QSL 365 • 3 x Cummins ISX L-6 	
1.2	Must be an OEM HD Diesel engine	
1.3	Must be able to connect and interface with Original Equipment Manufacture (OEM) or aftermarket diagnostic electronic service tools.	
1.4	Must be completely operational, engine must operate and function as if in a real vehicle.	
1.5	Must have a master control panel with a Diagnostic Link Connector (DLC), specifically a 9 pin J1939 connector, and a Malfunction Indicator Light (MIL).	
1.6	Must have a noiseless exhaust gas system	
1.7	Must include a radiator and cooling system	
1.8	Must include an air intake system with turbo charging and filters	
1.9	Must include a fuel tank and filters	

		Identify where the supporting documentation is located in the bid package (Page number(s))
1.10	Must include a lubrication system and filters	
1.11	Must include an OEM cold start system on the following model: <ul style="list-style-type: none"> Caterpillar Model C9 	
1.12	Must include an OEM engine retarder on the following models: <ul style="list-style-type: none"> Mercedes Model OM502LA Cummins Model ISX L-6 	
1.13	Must include a 12 or 24 volt electrical system with batteries.	
1.14	Must have a complete and operable electrical/electronic system	
1.15	Electrical circuits must be fuse protected	
1.16	Must provide the user with real life "hard" system faults	
1.17	Must include OEM service manuals in electronic format	
1.18	Must include an OEM engine management system	
1.19	Must include a Diesel Particulate Filer on the following model: <ul style="list-style-type: none"> Cummins Model ISX L-6 	
1.20	Must provide electronic fault insertion	
1.21	Must be mounted on a heavy duty frame with steering castors with locking capability iaw SOR Sect 3.1.1	
1.22	Must provide users with engine data information in electronic format	
1.23	Must display, as a minimum, the following functions either in a single display or separately: <ol style="list-style-type: none"> Engine oil pressure. Engine coolant temperature. Fuel level. Electrical system voltage. Engine rotations per minute (RPM). 	
2	Performance Tasks	
2.1	Instructors must be able to activate faults electronically or	

		Identify where the supporting documentation is located in the bid package (Page number(s))
	mechanically	
2.2	Instructors must be able to operate and demonstrate as if in an actual vehicle	
2.3	Students must be able to perform enhanced manipulation of the trainer components	
2.4	Students must be able to diagnose and troubleshoot fuel system	
2.5	Students must be able to diagnose and troubleshoot the engine management system	
2.6	Students must be able to diagnose and troubleshoot the electrical/electronic system	
2.7	Students must be able to obtain electronic parameters using diagnostic equipment	
2.8	Students must be able to obtain technical data and information from trainers	
2.9	Students must be able to perform testing procedures of all systems	
2.10	Students must be able to inspect and maintain trainer components	
3	Performance Requirements	
3.1	Users must be able to place training simulators in different locations as necessary. Large training simulators must have wheels for easy manoeuvrability.	
3.2	Users must have the ability to exercise test procedures as outlined in reference manuals and have the capability to use diagnostic test equipment.	
3.3	Users must have the authorization to change the name plates or decals in either official language as may be required in future use.	
3.4	Users must be able to manipulate and maintain components as required.	

		Identify where the supporting documentation is located in the bid package (Page number(s))
4	Additional Requirements	
4.1	Must meet present industry emission standards.	
4.2	In the event that manuals and engine data information are not available in both official languages, the supplier must grant the rights to translate the documents and existing publications to Canada.	
4.3	Must be fully operable without relying on infrastructure resources.	
4.4	Must provide active and stored diagnostic trouble code information.	
4.5	Must include protective covers for all moving parts to prevent personal injury.	
4.6	Must include protective covers on high temperature components	
4.7	Must include a keyed ignition system	
4.8	Must have a minimum one (1) year on-site warrant on parts, labour and manufacturer defects.	
4.9	Must be no more that 78" (198 cm) tall, 74" (188 cm) wide and 102" (259 cm) in length.	
4.10	All deliverables must be received on or before 29 August 2014.	