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**SOLICITATION CLOSES
L'INVITATION PREND FIN**

**at - à 02:00 PM
on - le 4 July 2017**

**TIME ZONE - FUSEAU HORAIRE
Eastern Daylight Time (EDT)**

**REQUEST FOR INFORMATION
DEMANDE DE RENSEIGNEMENTS**

Comments - Commentaires

Issuing Office - Bureau de distribution
Director Services Contracting (D Svcs C) 3-4-6
Department of National Defence
101 Colonel By Drive
Ottawa ON K1A 0K2

Title - Sujet Physicians Assistants Degree Granting	
Solicitation No. - N° de l'invitation W6369-17-A045/A	
Date of Solicitation - Date de l'invitation 16 June 2017	
Address enquiries to: Adresser toute demande de renseignements à : Sandy (Alexander) Ueffing Director Services Contracting (D Svcs C) 3-4-6	
Telephone No. N° de téléphone 819-939-8920	E-Mail Address Courriel Alexander.Ueffing@forces.gc.ca
Destination See herein	
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur Telephone No. - N° E-Mail Address - Courriel de téléphone	
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



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1. BACKGROUND

- A. The Canadian Forces Health Services Group (CF H Svcs Gp) plans to establish a contract with an accredited university in order to award academic credentials and the associated baccalaureate degree to Canadian Armed Forces (CAF) Physician Assistant (PA) Program graduates.
- B. For the purposes of this Request for Information (RFI), we are soliciting interest from any accredited university with a medical school that has an established, or that is intending to establish, a Physician Assistant Program. Any accredited university intending to submit a proposal for consideration must be compliant (or will be compliant upon delivery of this service) with the Canadian Medical Education Directions for Specialists - Physician Assistant (CanMEDS-PA) as supported by the Royal College of Physicians and Surgeons of Canada (RCPSC) and the College of Family Physicians of Canada (CFPC). Further, any accredited university awarded this contract must achieve and maintain their PA Program accreditation with the future Physician Assistant program accrediting body.
- C. The CAF PA program was the first to be accredited in Canada. Currently, the Canadian Medical Association (CMA) offers conjoint accreditation of PA training programs in Canada. The CAF PA Program was granted a six (6)-year accreditation status by CMA in August 2016. The CAF PA Program is conducted under the auspices of the Canadian Forces Health Services Training Centre (CFHSTC) which is not a university, therefore the CAF must rely on an external institution to approve the program and confer a Bachelor of Science degree. This type of affiliation will likely be essential to maintaining the program's accreditation status. Since 2007, the CAF has obtained a degree for its PA graduates from the University of Nebraska.
- D. The CAF program selects up to 24 students annually from the CF H Svcs Gp Medical Technician (Med Tech) occupation. The program is divided into six semesters: one year of didactic training (semesters 1-4) and one year of clinical rotations (semesters 5-6) which culminate in final Objective Structured Clinical Examination (OSCE) testing. Graduates of the program are then eligible to challenge the Physician Assistant Certification Council of Canada (PACCC) exam. Certification is the final requirement for CAF PA's to become fully qualified, at which time they may be employed as PA's to deliver care in both civilian and military settings, contributing to the CAF's overall operational capability.

2. STATEMENT OF WORK (SOW)

- A. A draft SOW is attached as Annex A to this RFI.

3. QUALIFICATIONS

- A. Draft Evaluation Criteria are attached as Annex B to this RFI.

4. CURRENT CURRICULUM

- A. The current CAF PA Program Course Description is attached as Annex C to this RFI.
- B. The current CAF PA Program Course Outline is attached as Annex D to this RFI.



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5. TIMEFRAMES

- A. A contract must be in place by the end of 2017 to cover the session starting in the summer of 2018. It is anticipated that the contract will cover five (5) accreditation cycles, with options for up to five (5) additional cycles.

6. QUESTIONS TO INDUSTRY

- A. Could you provide the requested services as requested? More specifically, could your institution:
- (i) Recognize CAF Med Techs as the selection group for the CAF PA Program? Med Techs have at a minimum a Primary Care Paramedic (PCP) licence as well as approximately 10 years of service (or more). They have a wide range of domestic and international experience. The selection criteria are based on critical PA competencies that were determined through research from an occupational analysis perspective.
 - (ii) Recognize the CAF selection process? The selection process is competitive and includes enhanced prerequisites including a personality inventory, aptitude testing and a PA medical knowledge selection examination. Qualification standards and training plans for the training Med Techs receive prior to the CAF PA Program can be obtained for review, upon request.
 - (iii) Recognize the CAF PA Program as it currently exists (semester 1-6) and the delivery method by the CFHSTC thereby granting a Bachelor of Science degree to graduates of the program?
 - (iv) Indicate what, if any, modifications would be required for degree granting. The course duration of semesters 1-6 cannot exceed the established 24 months of training or compromise the established Canadian standard as set out in CanMEDS-PA.
- B. Please provide the following:
- (i) A rough estimate of costs associated with the delivery of this degree;
 - (ii) Any comments on the draft SOW; and
 - (iii) Any comments on the draft evaluation criteria.

7. REVIEW OF THE RFI

- A. Canada reserves the right to request additional information for clarification during the review of the responses to this RFI, and/or to consider a subsequent modification of the response put forward by a respondent.

8. RECOMMENDATIONS FROM INDUSTRY

- A. Industry recommendations that do not restrict the level of competition nor favour a particular solution or company will be given consideration. However, Canada will have the right to accept or reject any or all recommendations.



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9. NO OBLIGATION

- A. The issuance of this RFI or any engagement activities issued as part of this RFI do not create an obligation for Canada to issue a subsequent bid solicitation and does not bind Canada legally or otherwise, to enter into any agreement or to accept any suggestions from industry.
- B. This supplier community consultation process is not a bid solicitation and a contract will not result from this request.
- C. Potential respondents are advised that any information submitted to Canada in response to this industry consultation process may be used by Canada in the development of a subsequent competitive solicitation. However, Canada is not bound to accept any expression of interest or to consider it further in any associated documents such as a Request for Proposal.



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ANNEX A - DRAFT STATEMENT OF WORK

1. Requirement

- 1.1 The Canadian Armed Forces (CAF) Health Services (H Svcs) requires a Bachelor of Science in Physician Assistant Studies from a recognized University to be awarded to CAF Physician Assistants (PA) who complete the Canadian Medical Association (CMA) accredited PA program provided by the Canadian Forces Health Services Training Centre (CF H Svcs TC).

2. Background

- 2.1 In 1984 the CAF changed the name of 6B Medical Assistants to PAs. Training of PAs became a concern when CAF military hospitals began to be closed in the mid-1990s. To address deficiencies in the CAF's ability to train PAs, a civilian-accredited military training program for PAs was created within the Canadian Forces Health Services Training Center (CF H Svcs TC), located in CFB Borden, Ontario. The CAF PA course, which started in 2007, was the first course of its kind in Canada to grant a Bachelor of Science in Physician Assistant Studies.
- 2.2 The actual CAF PA Program is conducted under the auspices of the CF H Svcs TC, which is not a university. Therefore, it must rely on an external institution to approve the program and agree to use its degree granting status to confer a Bachelor of Science degree, based on the completion of the CAF PA Program. This type of affiliation is essential in order to secure the CF H Svcs TC's Canadian Medical Association (CMA) accreditation and to ensure the eligibility of its graduates to challenge the Physician Assist Certification Council of Canada (PACCC) PA Certification Exam (PA Cert Exam).
- 2.3 PAs within the Department of National Defence (DND) support the CAF Health Care system by providing clinical care/services in emergency primary care, through delegation by a physician. They are employed in static regions (large centres and remote areas) in addition to deployments in support of field, sea, and air operations. As well, they also provide preventive medicine education, basic facilities inspections with respect to health and safety issues, emergency dental services, medical administration, and Chemical, Biological, Radiological, and Nuclear (CBRN) medical support. PAs fulfill a vital role within the H Svcs mission, providing full spectrum, high quality health services to Canada's fighting forces wherever they serve.

3. Objective

- 3.1 The CAF requires PAs that successfully complete and graduate the CAF PA Program to be awarded a Bachelor of Science in Physician Assistant studies from a recognized University that has all of the credentials and authorities to register, provide official transcripts, and confer the degree.
- 3.2 The award of the degree will provide CAF PAs academic credentials necessary to be eligible to challenge the PACCC PA Cert Exam. PA certification is the final requirement to see a PA considered fully qualified, resulting in trained PAs who can contribute to the operational capabilities and readiness of the Canadian Forces Health Services.



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4. Definitions and Applicable Documents

4.1 For the purposes of this SOW, the following definitions apply:

- 4.1.1 CAF PA Program: A Canadian Medical Association Accredited Physician Assistant Studies program run entirely by the Canadian Forces Health Services Training Centre. The program consists of three phases. Phase one consists of a year of didactic training. Phase 2, also a year in length, consists of clinic rotations covering professionalism, treatment of infections, treatment of musculoskeletal (MSK) conditions, treatment of dermatological conditions, treatment of haematological and oncologic conditions, treatment of endocrine conditions, conditions of the nervous system, head, eyes, ears, nose and throat (HEENT) conditions, respiratory conditions, cardiovascular system, gastrointestinal conditions, genitourinary conditions, obstetrical and gynecological conditions, community health, mental health, geriatric conditions, a focus on trauma and emergency medicine, and finally, pediatrics. Phase 3 consists of final evaluations, which are simulation-based scenarios;
- 4.1.2 CF H Svcs TC: The main training facility for CF H Svcs basic occupational training. Location of the Physician Assistant Training Program;
- 4.1.3 Training Plan: Source document containing course content and lesson guidance;
- 4.1.4 PA: Highly skilled health professionals who support physicians in all health care settings. Within a formal Physician/PA relationship, a PA has the skills and experience to deal with medical emergencies, specialty practice environments, as well as everyday health care needs;
- 4.1.5 PA Program Graduate: A PA Program Graduate is a student who has successfully completed all 3 Phases of the CF H Svcs TC PA Program; and
- 4.1.6 Successfully complete: Means a student has met the minimum standard of the respective PA Program evaluation or phase.

4.2 Due to its size, the PA Program Training Plan (TP) documentation will be provided to the Contractor by means of storage media (USB, CD, DVD, etc.), upon request from the Contractor.

5. Business and Technical Environment

- 5.1 The CF H Svcs TC is open Monday to Friday and has regular business hours of 7:30 am to 4:00 pm. Access to the CF H Svcs TC is subject to holidays and special events.
- 5.2 The Contractor must be available to the CF H Svcs TC during the work week, Monday to Friday, for consultation and administration on an as required basis. The Contractor will need to provide its regular office hours to the CF H Svcs TC. The Contractor's regular office hours must be at least a period of five (5) hours between 7:00 am to 5:00 pm EST.

6. Scope

- 6.1 Sessions will commence during the summer and will contain a maximum of 24 students who will graduate two (2) years later.



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- 6.2 The Contractor will provide graduates of the CAF PA program with a Bachelor of Science degree in Physician Assistant Studies upon confirmation that the students have met the academic requirements and are graduates of the CAF PA Program.
- 6.3 There will not be a requirement for the Contractor to deliver any kind of instruction/training, to coordinate clinical rotations, or conduct evaluations. The CF H Svcs TC is responsible for all aspects of the operation of its PA program, including but not limited to the selection of candidates, program administration, program instruction, clinical rotations, remediation, and evaluations.
- 6.4 The CF H Svcs TC retains all rights and privileges to screen and select candidates who will participate in the PA Program. All students selected by DND will receive transcripts and degrees from the Contractor for successful course completion.
- 6.5 Some students may enter the program with prior experience and education similar or relevant to the CAF PA Program, which may be considered equivalent to portions of the Program. In such situations, on an as-and-when requested basis, the Technical Authority will request the contractor to conduct a Prior Learning Assessment (PLA) to determine if the respective student shall be granted credit.
- 6.6 The Contractor must:
 - 6.6.1 Review CAF PA Program student grades and use those grades provided by the CAF PA Program staff for posting of official transcripts; and
 - 6.6.2 Award academic credentials and associated baccalaureate degree to CAF PA Program students based on the training completed, according to the PA Program Training Plan. This will be culminated with a convocation ceremony to be held at the CF H Svcs TC in CFB Borden for each graduating cohort of PA Program Students. The Contractor must at a minimum provide a representative who has the authority to confer the Bachelor of Science in Physician Assistant Studies Baccalaureate Degree Diploma. All associated costs for the Contractor to attend the convocation ceremony is the responsibility of the Contractor.

7. Deliverables

- 7.1 The Contractor must provide the following:
 - 7.1.1 Official transcripts for PA Program students. The transcripts are required on convocation day. An official copy is to be given to each PA student and a PDF electronic copy of the transcripts for the entire class is to be given to the CAF PA Program Authority;
 - 7.1.2 Official diplomas for completion of a Bachelor of Science in Physician Assistant Studies for each graduating PA student who has completed the CAF PA Program. The diplomas are required no later than thirty days after convocation. An official diploma is to be given to each PA student and a PDF electronic copy of diplomas for the entire class is to be given to the CAF PA Program Authority;
 - 7.1.3 A guest list of all Contractor representatives that will participate in the convocation ceremony. The guest lists is required a minimum of 21 days prior to the convocation ceremony, which can be delivered to the CAF PA Program Authority through e-mail;



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- 7.1.4 Points of contact for the CAF PA Program Authority containing full name, telephone number, e-mail, and facsimile to the CAF PA Program Authority within 14 days of contract award. Point of contact information can be provided by e-mail;
- 7.1.5 A contact list of all personnel directly involved in the administration and financial support of the PA Program. The contact list is to be provided to both the CAF PA Program Authority and Technical Authority in a hard and PDF electronic copy at the start-up meeting; and
- 7.1.6 PLAs of CAF PA Program students on an as-and-when requested bases. PLAs must be completed and returned to the CF H Svcs TC within 45 days of receipt of the PLA package.

8. Quality Assurance

- 8.1 The Contractor must have a current accreditation certificate with the Canadian Physician Assistant Education Association (CPAEA) and maintain its accredited status throughout the duration of the contract.
- 8.2 The Contractor must have a current accreditation certificate with the Committee on Accreditation of Canadian Medical Schools (CACMS) and maintain its accredited status throughout the duration of the contract.
- 8.3 The transcripts provided to students must be of the same quality and standard that the Contractor would give to resident students of its PA program. At a minimum, the transcripts must include the following:
 - 8.1.1 Issue date;
 - 8.1.2 First and last name of the student;
 - 8.1.3 Student id number;
 - 8.1.4 Program name;
 - 8.1.5 Program courses and associated grades;
 - 8.1.6 Name of the educational institution; and
 - 8.1.7 Means of authenticating that the document is an original through an official embossed seal, official stamp, watermark, or similar.
- 8.4 The Bachelor of Science Diplomas must be of the same quality and standard that the Contractor would give to resident students of its PA Program. At a minimum the diplomas must include the following:
 - 8.2.1 Name of the educational institution;
 - 8.2.2 First and last name of the student;
 - 8.2.3 Original signatures of staff who are authorized and required to confer the degree;



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- 8.2.4 Written description that identifies that the student has met all requirements to receive the degree;
- 8.2.5 Means of authenticating that the document is an original through an official embossed seal, official stamp, watermark, or similar; and
- 8.2.6 Measure at least 8.5 x 11 inches.

9. Reporting, Communications, and Meetings

- 9.1 The Contractor must provide a single point of contact to the CAF PA Program Authority who will coordinate items pertaining to PA program administration, instruction, remediation, and evaluation.
- 9.2 The Contractor must respond to e-mail and telephone queries within two (2) working days. Should there be a requirement for the Contractor to respond to a query outside of the initial two (2) working days, the Contractor must advise the CF H Svcs TC of the expected time to receive a response.
- 9.3 The Contractor must have a Video Conferencing (VTC) capability which can be accessed through the internet. VTC meetings can occur between the CF H Svcs TC and Contractor on an as-required basis. The date and time of the meeting must be mutually agreed by both parties.

10. Location of Work and Travel

- 10.1 With the exception of the convocation, there is no requirement for the Contractor to conduct work required to meet the obligations of this Statement of Work at the CF H Svcs TC in Borden, Ontario, Canada. All work completed by the Contractor will take place in the Contractor's location and facilities. The CF H Svcs TC will coordinate and determine the location of instruction and evaluation for all phases of PA Program training.
- 10.2 Convocation ceremonies will take place at the CF H Svcs TC, based on a pre-determined date identified and agreed to by both the Contractor and the CF H Svcs TC. If necessary, an alternate venue may be used for a convocation ceremony.
- 10.3 The Contractor must make faculty staff available for a site visit by CF H Svcs TC staff, for the purposes of PA program discussion. Requests for a site visit will be made by the CF H Svcs TC at least 30 days ahead of the intended meeting date. The Contractor may propose an alternate date(s) as long as it is within 14 days of the requested date. All associated travel costs for CF H Svcs TC are a DND responsibility;
- 10.4 The Contractor may request a site visit to the CF H Svcs TC, for the purposes of PA Program discussion. Visit requests must be made at least 30 days ahead of the intended meeting dates. The CF H Svcs TC may propose an alternate date(s) as long as it is within 14 days of the requested date. All associated travel costs for the Contractor are the Contractor's responsibility; and
- 10.5 A site visit requested by either the CF H Svcs TC or the Contractor on shorter notice may occur so long as both parties come to a mutual agreement on the date.



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11. Language of Work

- 11.1 All written and verbal communication between the Contractor and DND/CF H Svcs TC must be in English.



ANNEX B - DRAFT TECHNICAL EVALUATION CRITERIA

MANDATORY CRITERIA

#	REQUIREMENT
M1	<p>The Bidder must have a current accreditation certificate with the Canadian Physician Assistant Education Association (CPAEA) and be capable of maintaining its accredited status throughout the duration of the contract.</p> <p>The Bidder must provide the following with the Bid:</p> <ul style="list-style-type: none"> (a) An CPAEA accreditation certificate showing evidence of current accreditation; (b) Assessment dates for re-certification of the CPAEA accreditation; and (c) The most recent CPAEA accreditation report on the Bidder.
M2	<p>The Bidder must have a current accreditation certificate with the Committee on Accreditation of Canadian Medical Schools (CACMS) and be capable of maintaining its accredited status throughout the duration of the contract.</p> <p>The Bidder must provide the following with the Bid:</p> <ul style="list-style-type: none"> (a) An CACMS accreditation certificate showing evidence of current accreditation; (b) Assessment dates for re-certification of the CACMS accreditation; and (c) The most recent CACMS accreditation report on the Bidder.
M3	<p>The Bidder must provide an example of an official transcript for PA Program students. At a minimum, the transcript must include the following:</p> <ul style="list-style-type: none"> (a) Issue date; (b) First and last name of the student; (c) Student id number; (d) Program name; (e) Program courses and associated grades; (f) Name of the educational institution; and (g) Means of authenticating that the document is an original through an official embossed seal, official stamp, watermark, or similar.



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#	REQUIREMENT
M4	<p>The Bidder must provide an example of an official diploma for PA Program students who will be conferred a Bachelor of Science in Physician Assistant studies. At a minimum the diploma must include the following:</p> <ul style="list-style-type: none">(a) Name of the educational institution;(b) First and last name of the student;(c) Original signatures of staff who are authorized and required to confer the degree;(d) Written description that identifies that the student has met all requirements to receive the degree;(e) Means of authenticating that the document is an original through an official embossed seal, official stamp, watermark, or similar; and(f) Measure at least 8.5 x 11 inches.



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ANNEX C - COURSE DESCRIPTION

During the first year of the program candidates are provided with classroom instruction in the following areas:

Anatomy and Physiology

This course focuses on the fundamental structural and functional principles of the human body, including aspects of basic development, cell and tissue organization, the nervous and musculoskeletal, cardiovascular, respiratory, urinary, gastrointestinal, endocrine, and reproductive systems.

Biochemistry

This course introduces the fundamental principles of general chemistry (chemical equations, solutions, acids and bases, salts, pH, buffers, and hydrolysis), organic chemistry (structure and nomenclature of major classes of organic compounds), and metabolism (carbohydrates, proteins, lipids, nucleic acids, and enzymes).

Concepts of Clinical Practice

This course includes basic concepts related to communication techniques, history taking, physical examination, documenting clinical encounters, and diagnostic investigations. An introduction to evidence based medicine is included.

Pharmacology

This course provides the principles of basic pharmacology, clinical pharmacology and pharmacotherapeutics. The course focuses on drug classes affecting the body systems and classes of drugs used to treat specific conditions.

Pathophysiology

This course will review the biologic and physical manifestations of disease as they correlate with the underlying abnormalities and physiologic disturbances.

Infectious Diseases

This course introduces the differentiating characteristics and pathogenicity of clinically important bacterial, fungal, viral, and parasitic pathogens. Each infectious disease is examined in terms of etiology, pathology, signs and symptoms, diagnostic testing, clinical course, complications, prognosis, and treatment.

Musculoskeletal Conditions

This course focuses on the establishment of diagnosis and management of orthopaedic conditions commonly encountered in a primary care setting. Orthopaedic physical examination and casting skills are included. It also introduces the candidate to common rheumatologic conditions encountered in the primary care setting with emphasis on the clinical rheumatologic manifestations of systemic diseases, diagnostic criteria, and management.



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Dermatological Conditions

This course focuses on the assessment of common dermatological conditions found in the ambulatory care setting. It includes emphasis on dermatological terminology, techniques, and procedures. Instruction and practice in minor surgical skills; suturing, incision and drainage, and removal of foreign bodies is included.

Haematologic, Immunologic and Oncologic Conditions

This course reviews basic pathological processes associated with the pathogenesis of disease, cellular response to stress, process of inflammation, and neoplasia. The focus is on the assessment and management of common hematologic, allergic and neoplastic disease.

Endocrine Conditions

This course introduces the clinical features, diagnosis, and treatment of common endocrine disorders such as diabetes, thyroid, parathyroid, pituitary, and adrenal disorders.

Neurological Conditions

This course focuses on the clinical manifestations of neurological disorders and emphasizes diagnostic criteria and appropriate care and/or referral of those neurological disorders most likely to be encountered in the primary care setting.

Head, Ear, Eye, Nose and Throat Conditions

This course focuses on the assessment and treatment ear, eye, nose, and throat conditions commonly encountered in the primary care setting.

Respiratory Conditions

This course introduces the candidate to the fundamentals of pulmonary medicine with emphasis on the clinical features of pulmonary diseases or conditions such as asthma, COPD, pulmonary embolism, and tuberculosis.

Cardiovascular Conditions

This course focuses on routine and emergent cardiovascular conditions commonly encountered in the primary care setting. The emphasis is on clinical manifestations, assessment, and appropriate therapeutic measures. This course also introduces the candidate to the fundamentals of electrocardiography and interpretation EKGs. A full ACLS course is provided and all candidates are ACLS certified.

Gastroenterology

This course covers the fundamentals of gastroenterology with primary focus on the history, physical exam, lab and/or radiographic studies, endoscopic studies, diagnosis and treatment of those gastrointestinal disorders most commonly encountered in the primary care setting.



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Genitourinary Conditions

This course is designed to introduce the candidate to various urologic and nephrologic conditions commonly encountered in the primary care setting. Emphasis is on clinical features, diagnostic criteria, assessment, and therapeutic interventions.

Obstetrics/Gynaecology

This course is designed to introduce the candidate to the fundamental principles of obstetrics to include pregnancy, labour, and delivery, as well as introduction to normal gynaecology with a focus on diagnosis and management of common gynaecologic abnormalities.

Paediatric Conditions

This course covers normal growth and development of the child and fundamental aspects of common childhood disorders and diseases. Instruction is also provided in the areas of physical assessment of neonatal, paediatric, and adolescent patients, preventive medicine, congenital disorders, and common psychological disorders.

Community and Environmental Health

This course focuses on military aspects of preventive medicine and the effects of the principle agents of trauma seen in a military environment such as burn, radiation, chemical, or electrical injuries. Near drowning, altitude, and diving sickness, as well as thermal injuries are included.

Mental Health

This course is an introduction to clinical psychiatry and psychiatric interviewing techniques and includes recognition and differentiation of the various psychiatric disorders. Emphasis is placed on personality disorders, behavioural and psychiatric problems most likely to be encountered in a primary care setting and/or on the battlefield.

Gerontology

This course introduces the basic principles of aging and its effect on the physiologic processes. Emphasis is placed on how aging affects the occurrence, progression, and treatment of diseases, which are commonly seen in geriatric medicine.

Emergency Medicine/ Trauma Management

This course focuses on theoretical and practical aspects of the assessment and management of commonly encountered medical emergencies. Initial assessment of the trauma victim, review of signs and symptoms, accompanying physical findings, and methods for diagnosis and treatment of a spectrum of emergent illnesses is included. Instruction and practice in chest tube placement, basic and advanced airway management and peripheral intravenous access is included.



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ANNEX D - COURSE OUTLINE

Anatomy and Physiology

- anatomy and physiology of the MSK
- anatomy and physiology of the integumentary system
- anatomy and physiology of the endocrine system
- anatomy and physiology of the nervous system
- anatomy and physiology of the HEENT
- anatomy and physiology of the respiratory system
- anatomy and physiology of the heart and circulatory
- anatomy and physiology of the gastrointestinal system
- anatomy and physiology of the urinary system
- anatomy and physiology of the reproductive system
- major developmental events that occur during the embryonic period

Biochemistry

- basic principles of chemistry and biochemistry

Concepts of Clinical Practice

- communication skills
- health history
- general physical examination
- formulate a clinical plan
- document patient care
- patient summaries and medical records
- introduction to diagnostic imagery
- Introduction to laboratory studies
- patient-centered care
- facilitate learning
- concepts of dispute resolution

Concepts of Professional Practice

- origin, role and professional guidelines of the Physician Assistant occupation
- professional guidelines
- biomedical ethics
- health advocacy
- multicultural issues
- evidence-based medicine
- medico-legal concepts

Pharmacology

- principles of pharmacology
- handle medications IAW current regulations
- pharmacology of anti-infective drugs
- of antiviral and anti-retroviral drugs
- drugs used to manage acute and chronic pain



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- topical dermatological therapy
- medications affecting coagulation
- local anesthetics
- medications used to treat endocrine conditions
- medications affecting the autonomic nervous system
- medications affecting the central nervous system
- medications used to treat neurological disorders
- of anti-histamines and anti-tussives
- medications used to treat ophthalmic disorders
- medications used to treat respiratory conditions
- medications used to treat hypertension
- anti-arrhythmic and ACLS medications
- medications used to treat gastrointestinal disorders
- pharmaceutical indications for genitourinary conditions
- pharmacological considerations for prescribing during pregnancy and lactation
- pharmacological considerations in paediatrics
- pharmacology of psychotropic medications
- pharmacological considerations in geriatrics

Infectious Diseases

- bacterial diseases
- mycoplasma, haemolytic, and rickettsial diseases
- viral diseases
- sexually transmitted diseases (STDs)
- conditions caused by human immunodeficiency virus (HIV) infection
- food-borne infections
- fungal, protozoal and helminthic infections
- infections in the compromised host

MSK Conditions

- connective tissue disorders
- neck & shoulder conditions
- arm, elbow and wrist region conditions
- thoracic and lumbar spine conditions
- pelvis, hip and thigh region conditions
- knee region conditions
- leg, ankle and foot region conditions
- tumours of the MSK
- fractures and dislocations
- acute and chronic pain
- health history for MSK conditions
- physical examination of the MSK
- diagnostic investigations for MSK conditions
- Skills Related to MSK System
 - Taping for ankle sprain
 - Taping for achilles tendonitis
 - Scaphoid cast
 - Below knee walking cast



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Dermatological Conditions

- signs and symptoms of the integumentary system
- benign and malignant conditions of the skin
- infections of the integumentary system
- dermatitis and inflammatory reaction conditions
- acneiform disorders
- urgent dermatological conditions
- wounds care
- conditions of the hair and nails
- health history for dermatological conditions
- physical exam of the integumentary system
- diagnostic investigations for dermatology conditions
- skills related to the integumentary system
 - foot and hand care
 - local anaesthesia
 - minor surgery
 - advanced wound care
 - biopsies and specimens collection
 - removal of foreign bodies (skin, eye, ear)

Hematological Immunological and Oncological Conditions

- classification of diseases
- body's response to injury, inflammation and repair
- disorders related to the immune system
- hemostasis and coagulation disorders
- haematological diseases
- conditions of the spleen
- neoplastic diseases
- diagnostic investigations related to haematological disorders
- skills Related to hematological system
 - assist in the administration and provision of blood products and transfusions

Endocrine Conditions

- disorders of the pituitary gland
- conditions of the thyroid gland
- conditions of the parathyroid gland
- conditions of the adrenal gland
- conditions of impaired glucose metabolism
- dyslipidemias
- multiple endocrine neoplasia
- obesity
- health history for endocrine conditions
- physical examination of the endocrine system
- diagnostic investigations related to endocrine conditions



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Neurological Conditions

- signs and symptoms of the nervous system
- peripheral nervous system disorders
- infections of the nervous system
- spinal cord disorders
- headaches
- seizure disorders
- movement disorders
- behavioural neurology
- urgent conditions
- tumours
- health history for nervous system conditions
- physical exam of the nervous system
- diagnostic investigations related to neurological conditions

HEENT Conditions

- signs and symptoms of the eyes
- ocular conditions
- signs and symptoms of the ears
- conditions affecting the ears
- conditions affecting the nose and paranasal sinuses
- conditions affecting the throat
- neoplasms of the head and neck
- health history for HEENT complaints
- physical examination of the head and neck
- detailed eye examination

Respiratory Conditions

- fluid, electrolyte and acid base disorders
- infections of the respiratory system
- conditions of the pleura and mediastinum
- interstitial diseases and occupational lung disease
- obstructive pulmonary diseases
- pulmonary vascular diseases
- urgent pulmonary conditions
- pulmonary neoplasms
- sleep-related respiratory disorders
- common underwater and altitude related respiratory conditions
- a health history for respiratory conditions
- respiratory examination
- diagnostic investigations for respiratory conditions

Cardiovascular Conditions

- conditions of the pericardium and myocardium
- valvular heart disease
- ischemic heart disease
- cardiac failure



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- arterial diseases
- systemic hypertensive disease
- venous and lymphatic disease
- initial management of Acute Coronary Syndrome
- health history for cardiovascular conditions
- physical exam of the CVS
- diagnostic investigations for cardiovascular conditions
- Skills related to the cardiovascular system
 - 12-lead electrocardiogram interpretation
 - cardiac arrhythmia identification
 - advanced cardiac life support

Gastrointestinal conditions

- upper gastrointestinal tract conditions
- lower gastrointestinal tract conditions
- liver, biliary tract and pancreatic conditions
- anorectal disorders
- initial management of acute abdominal pain
- nutritional disorders
- acute and chronic nausea and vomiting
- physical exam of the abdomen
- health history for gastrointestinal conditions
- diagnostic investigations related to gastrointestinal conditions

Genitourinary Conditions

- signs and symptoms of the genitor-urinary and male reproductive system
- male urologic conditions
- kidney and ureter disorders
- prostate, penis, urethra and scrotal disorders
- tumors and neoplasms of the genitourinary system
- health history for genitourinary complaints
- male genitalia and rectal examination
- diagnostic investigations related to genitourinary and male reproductive conditions

Obstetrical and Gynaecological Conditions

- female urologic conditions
- common conditions of the vulva, vagina and external genitalia
- conditions of the uterus and ovaries
- menstrual irregularities and abnormal uterine bleeding
- gynaecological neoplasms
- urgent gynaecological conditions
- conditions of the breast
- family planning
- infertility problems
- female puberty problems
- sexual assault
- prenatal assessment
- complications of pregnancy



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- labour and delivery
- postpartum care
- health history for obstetrical and gynaecological conditions
- physical exam of the breast and axillae
- gynaecological examination
- diagnostic investigations related to female reproductive/gynaecological conditions

Paediatric Conditions

- well baby/child care services
- eye conditions in paediatric patients
- ear, nose and throat conditions
- respiratory system disorders
- cardiovascular conditions in paediatric patients
- paediatric gastrointestinal conditions
- paediatric genitourinary conditions
- paediatric skin conditions
- paediatric neurological conditions
- paediatric haemolytic and musculoskeletal conditions
- paediatric haematological conditions
- paediatric infectious disease
- paediatric endocrine/metabolic conditions
- paediatric developmental and behavioural disorders
- common congenital syndromes
- care of the newborn
- problems in adolescent patients
- initial management for suspected child abuse
- health history for paediatric conditions
- comprehensive paediatric health assessment

Community and Environmental Health

- pest control
- immunization programs
- occupational health and safety
- continuous quality improvement
- conditions due to environmental exposure
- poisonous bite and stings
- conditions related to occupational environment
- acute poisoning
- drowning / near drowning
- electrical injury
- radiation exposure related conditions
- health maintenance education
- Assess facilities with respect to health and safety issues
- Assess operational and field facilities for hygiene and sanitation
- Provide advice on food preparation and food storage facilities
- Analyse water samples
- Investigate food borne illness outbreaks



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Mental Health Condition

- basic principles of mental health
- organize psychological symptomatology into recognized groupings using the DSM
- organic disorders presenting with behavioural or psychological symptoms and/or signs
- substance- related disorders
- psychotic disorders
- mood disorders
- anxiety disorders
- somatoform, factitious disorders
- dissociative disorders
- sexual and gender disorders
- eating disorders
- sleep disorders
- impulse control disorders
- adjustment disorder
- personality disorders
- psychiatric emergencies
- combat stress
- indicators of family violence
- psychiatric interview

Geriatric Conditions

- physiologic changes related to the aging process
- nutritional issues in the elderly
- sexual concerns in the elderly
- common conditions in the elderly
- geriatric health promotion and disease prevention
- syndromes of altered mental status
- on death and bereavement
- comprehensive functional and physical assessment of the elderly patient

Trauma and Emergency

- Advanced Trauma Life Support concepts
- perform primary and secondary assessment
- shock in a trauma patient
- burn injuries
- head trauma
- maxillo-facial trauma
- spinal and spinal cord trauma
- traumatic injuries of the chest
- pelvic fractures and traumatic abdominal injuries
- traumatic injuries of the extremities
- trauma related infections
- triage and sorting
- stabilize and transport a trauma patient
- aeromedical evacuation
- ballistic and blast effect injuries



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- combat casualty patient
- multi-trauma patients
- advanced airway management
- Clinical skills related to trauma
 - According to ATLS guidelines