Sample Curriculum Outline:

Ebola Personal Protective Equipment Training for Paramedic Services

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Introduction

This Sample Curriculum Outline: Ebola Personal Protective Equipment (PPE) Training for Paramedic Services has been developed to support paramedic services to train staff on the proper and safe use of PPE for Ebola virus disease (EVD). Recognizing the extensive amount of training that has already occurred in the province, use of these materials is fully optional. This curriculum may be accessed by trainers designated by paramedic services to deliver hands-on Ebola PPE Training, as outlined in the Chief Medical Officer of Health (CMOH) Directive for Paramedic Services and First Responders. Also available are Personal Protection Principles Workshop and Simulation Sessions¹, developed in partnership with Sunnybrook Health Sciences Centre and available to all paramedic services in the province.

Paramedic services and workers are required to comply with applicable provisions of the Occupational Health and Safety Act and its Regulations.

Optional/Sample Materials:

This sample training curriculum is optional – paramedic services that have developed their own materials and training strategies are not required to use these resources. These materials may be customized or adapted by an organization to address their specific needs and circumstances. Organizations with existing training resources may wish to augment those materials with content from this curriculum (if desired), or continue to use their existing materials.

Target Audience:

Trainers - The target audience to deliver this curriculum is trainers within paramedic services, designated by their organization to deliver applied training on the use of EVD PPE for staff within their organizations.

Trainees / Participants - The target audience to participate in this training are paramedics who are at risk of exposure to EVD as identified in the CMOH Directive for Paramedic Services and First Responders.

¹ Please note: these are optional workshops, developed to provide supplementary support for organizations that would like to further develop their knowledge and skills. Additional information and registration instructions are available at www.sunnybrook.ca/ebolapreparedness.
Sample Learning Goals and Objectives

Learning Goal(s)

To ensure that paramedics at risk of exposure to EVD
• understand how to select appropriate PPE based on the results of a point of care risk assessment
• understand the correct use and limitations of PPE
• and demonstrate proficiency in the safe donning, doffing and disposal of PPE.

Learning Objective(s)

The table below outlines sample learning objectives. This material may be used and/or adapted by organizations based on individual needs and circumstances.

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2 Note: The Occupational Health and Safety Act requires employers to take every precaution reasonable in the circumstances for the protection of a worker and to provide information, instruction and supervision to a worker to protect the health or safety of the worker. The OHSA also requires supervisors and workers to use or wear the PPE that the employer requires them to use or wear.
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| Module 1: Paramedic EVD Preparedness | • Explain the symptoms and mode of transmission of EVD  
• Explain the use of routine practices and additional precautions (RPAP)  
• Explain how to conduct a point of care risk assessment using the MOHTLC EVD Screening Tool  
• Describe the paramedic service’s measures and procedures to manage a suspect case, person under investigation (PUI) or confirmed case of EVD  
• Explain key concepts associated with the Internal Responsibility System and Occupational Health and Safety Act duties and responsibilities related to EVD | • EVD symptoms and mode of transmission  
• Use of routine practices in infection prevention and control  
• Point of care risk assessment process  
• EVD Screening Tool  
• Paramedic Service’s control measures and procedures to manage a suspect case, PUI or confirmed case  
• Internal Responsibility System (e.g. employer/supervisor/worker duties and responsibilities, raising issues to the employer /supervisor, Joint Health and Safety Committee/Health and Safety Representative) | • Individual Paramedic Service’s EVD protocols  
• CMOH Directive for Paramedic Services and First Responders  
• MOHTLC EVD Screening Tool  
• Ministry of Labour Internal Responsibility System Fact Sheet  
• Occupational Health & Safety Act Section 21 Committee Guidance Note- Application of Hazard Control Principle, Including the Precautionary Principle to infectious diseases  
• CSA Z94.4- Selection, Use and Care of Respirators  
• Public Health Ontario (PHO) core competencies training program  
• PHO hand hygiene videos  
• Provincial infectious Diseases Advisory Committee (PIDAC) RPAP Best practices document  
• Occupational Health and Safety Act  
• Healthcare and Residential Facilities Regulation  
• Ebola Personal Protection Principles Workshops and Simulation Sessions |
### Sample Curriculum Outline

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| **Module 2:** PPE Overview and Principles | • Explain the process for the selection of appropriate EVD PPE, based on a point of care risk assessment  
• Identify the types of PPE used within the paramedic service for suspect cases PUI or confirmed cases  
• Identify the purpose and importance of each PPE piece, including strengths, limitations and how it protects them  
• Explain the process for verifying proper fit and for inspection of PPE for damage or deterioration to verify integrity  
• Identify and explain best practices and principles for the safe and effective use of PPE (e.g. 'clean-touch-clean', personal hygiene, etc.) | • PPE selection process based on point of care risk assessment  
• Types of PPE used within service  
• Purpose and importance of each piece of PPE  
• Strengths, limitations of each piece of PPE  
• How to verify fit of PPE  
• How to inspect for PPE damage or deterioration  
• Best practices and principles for safe and effective use of PPE | • Individual Paramedic Service’s EVD protocols  
• MOHTLC EVD Screening Tool  
• Actual PPE to be used on hand  
• Provincial Infection Diseases Advisory Committee (PIDAC) RPAP Best practice document and core competencies training program  
• Occupational Health and Safety Act (OHSA)  
• CSA Z94.4 – Selection, Use and Care of Respirators  
• Public Health Ontario (PHO) hand hygiene videos and skin care  
• Ebola Personal Protection Principles Workshops and Simulation Sessions |
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| Module 3: PPE Hands-On Donning, Doffing and Disposal | • Explain the steps involved in safely donning and doffing PPE  
• Demonstrate competency\(^3\) in donning and doffing PPE under the observation of a competent trainer\(^4\)  
• Describe correctly the process for appropriate and safe disposal of PPE after use | • PPE donning/doffing steps:  
  o Video or demo with explanation of PPE steps  
  o Demo with learner explaining PPE steps  
  o Learner practices steps  
  o Skill performed independently and observed  
• Testing of paramedic competency in donning and doffing PPE checklist (with sign-off by a competent trainer)  
• Process for disposal of PPE | • Sample PPE Donning and Doffing Checklists for Paramedic Services  
• OR Individual Paramedic Service’s existing PPE checklists  
• Donning and doffing videos (if used) for the various PPE and scenarios  
• PPE required on hand for donning/doffing demonstration and practice  
• PPE manufacturer’s instructions  
• Ebola Personal Protection Principles Workshops and Simulation Sessions |
| Module 4: Scenarios | • Identify potential PPE issues/scenarios and corresponding appropriate actions (e.g. infection prevention & control breach, hydration, washroom break, etc.) | • Frequent issues and/or scenarios that may arise and how to deal with them | • Individual Paramedic Service’s EVD protocols  
• Ebola Personal Protection Principles Workshops and Simulation Sessions |

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\(^3\) Sample PPE donning and doffing checklists are available via Public Services Health & Safety Association. These sample checklists may be adapted by paramedic services (while maintaining consistency with PPE recommendations in the Chief Medical Officer of Health Directive for Paramedic Services and First Responders) to meet their needs. Alternatively, paramedic services may also choose to use their own checklists.

\(^4\) Note: it is essential this module be led by a competent trainer (e.g. designated by their organization and qualified because of knowledge, training and experience, to deliver appropriate-level of training).
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| Module 5: Observer | • Define the tasks and steps for paramedics to observe each other’s donning and doffing of PPE  
• Describe key best practices to look for and correct when observing donning and doffing of PPE  
• Describe how to effectively respond to specific situations/scenarios that may arise | • Key tasks of the paramedic observer  
• Best practices to look for and errors to correct, including: assessing staff for skin integrity or other issues; proper sizing; integrity of PPE; skin or hair exposure; clean vs. dirty; etc.  
• Dealing with specific situations/scenarios (e.g., ‘observer’ assist, unanticipated departure from routine sequencing, breach of PPE, support for care-givers providing in-room care, etc.). | • Individual Paramedic Service’s EVD protocols  
• [Ebola Personal Protection Principles Workshops and Simulation Sessions](#) |
Administration and Logistics

Delivery Method:

The curriculum may be delivered via in-person applied training sessions facilitated by competent trainers designated by individual paramedic services. Some materials (excluding the PPE hands-on module) may be delivered in alternate formats at the discretion of individual organizations.

Training Duration:

Instructors may determine the duration of training, based on the circumstances of individual organizations. Training may be delivered in a single session, or broken into multiple modules delivered at different times.

Course Registration:

Registration is managed locally by designated trainers at individual facilities.

Testing and Documentation:

Testing and documentation requirements for paramedics identified as requiring proficiency in the use of PPE are set out in the CMOH Directive for Paramedic Services and First Responders. This includes testing using a step-by-step checklist in which core competencies are assessed, verified and documented by a competent trainer. As described above, a sample checklist is available on the training section of the Ministry’s Ebola webpage. Services may also choose to use their own checklists. Test results should be documented to verify competency and may also be used to identify areas for follow-up training.