OLS Academy

Primary Care Paramedicine 2026-27
Term 1 | Block 2
PCP-119 Trauma I
OLS Academy
Course Outline
Cohort A

COURSE OVERVIEW

PCP-119 Trauma I is delivered in the classroom setting using a blend of lecture, group discussion, and applied case-based learning. This course introduces students to foundational airway, oxygenation, and ventilation concepts required for the assessment and management of patients experiencing traumatic and emergency presentations.

The course focuses on the structure and function of the upper and lower airways, assessment of airway patency, recognition and management of airway obstruction, suctioning, basic and advanced airway adjuncts, supplemental oxygen therapy, oxygen delivery systems, manual ventilation, and introductory concepts related to mechanical ventilation. Students will also examine the indications, equipment, safety considerations, complications, reassessment priorities, and documentation expectations associated with airway and ventilation interventions.

PCP-119 provides the theoretical foundation for airway and oxygenation skills that are practically reinforced and evaluated in the lab environment. Emphasis is placed on applying airway, oxygenation, and ventilation principles to patient-care scenarios, selecting appropriate interventions based on patient presentation, recognizing complications, and adjusting care as patient condition changes.

MEETING TIMES & INSTRUCTIONAL METHODS

In-class sessions (virtual when warranted)

Lecture/Group Discussion:	Tuesdays	8:30 – 10:00
Total hours:	7.5	

REQUIRED MATERIALS, PREREQUISITES, & COREQUISITES

Textbooks

Caroline, N. (2021). *Emergency Care in the Streets, Canadian Edition 8th ed*. Burlington, MA, *Jones and Bartlett Learning.*

Class Materials

Students will be expected to be prepared to take notes and to complete in-class activities. Instructors may also specify the use of mobile phones and laptops for some activities.

Supplemental Materials to be posted on the Omni Life Support (OLS) website: Materials related to PCP-119, such as in-class presentations, will be available for student access on the Student WorkSpace. Academy faculty does not authorize the posting of PCP-119 materials on other sites. Each student is responsible for his/her own learning which includes staying current with postings on the OLS website.

Prerequisites: None
Corequisites: PCP-105, PCP-107, PCP-113, PCP-114, PCP-117

INSTRUCTOR(S)

Instructor: Kailee Heath E-mail: Kailee.Heath@omnilifesupport.com
Voice: (506) 830-4277

LEARNING OUTCOMES

Upon successful completion of this course, it is expected that students will have gained sufficient knowledge and skill to safely and proficiently render patient care to patients suffering from traumatic emergencies. By the end of the course, the student will be able to:

- Describe the structure and function of the upper & lower airways
- Evaluate an airway patency and take corrective steps to remove obstruction
- Describe how to safely suction a patient's upper airway
- Explain how to provide supplemental oxygen therapy and properly use oxygen delivery devices
- Explain proper procedure for inserting, maintaining, and removing advanced airway devices
- Describe the procedure for insertion of a gastric tube
- Describe the difference between surgical and non-surgical airways
- Describe the equipment used for mechanical ventilation, when it is provided, and have a general understanding of the various ventilation modes and settings.

INTENDED LEARNING OBJECTIVES:

Learning objectives for PCP-119 Trauma 1 are guided by the *National Occupational Competency Profiles (NOCP)* for Paramedics. Each objective, indicated by the prefix "O", is linked to the corresponding NOCP sub-competency with the matching alpha-numerical code (e.g., O1.1.a is the learning objective tied to sub-competency 1.1.a of the NOCP for Paramedics). As per the NOCP guidelines for Paramedics, to succeed in this course, you must demonstrate competence in the following areas.

Some NOCP-linked psychomotor airway and oxygenation objectives are introduced in PCP-119 and practically reinforced/evaluated during Lab sessions.

Learning Objectives	Embedded Knowledge and Skills
O5.1.a	By the end of the course, the student will be able to: ○ **5.1.a.1 - Apply** problem-solving techniques required with various types of patients. ○ **5.1.a.2 - Adapt** maneuvers and positioning for head, neck, and jaw positioning, which improve airway patency. ○ **5.1.a.3 - Perform** manual airway maneuvers, under a variety of patient and environmental presentations. ○ **5.1.a.4 - Adjust** to changes in patient's airway patency. ○ **5.1.a.5 - Demonstrate** management of potential complications of airway maneuvers.
O5.1.b	By the end of the course, the student will be able to: ○ **5.1.b.1 - Explain** the purposes of and indications for oropharyngeal suctioning. ○ **5.1.b.2 - Describe** suctioning equipment. ○ **5.1.b.3 - Explain** established standards of maintenance for suctioning equipment. ○ **5.1.b.4 - Identify** pressure limitations for suctioning various age groups. ○ **5.1.b.5 - Operate** appropriate suctioning devices. ○ **5.1.b.6 - Perform** suctioning using safe technique. ○ **5.1.b.7 - Adapt** suctioning techniques, to changes in a patient's condition. ○ **5.1.b.8 - Explain** potential complications of suctioning. ○ **5.1.b.9 - Perform** cleaning and disinfection of suctioning equipment.

Learning Objectives	Embedded Knowledge and Skills
O5.1.c	By the end of the course, the student will be able to: ○ **5.1.c.1 - Identify** indications and equipment for suctioning beyond the oropharynx.
O5.1.d	By the end of the course, the student will be able to: ○ **5.1.d.1 - Explain** the purpose and indications for inserting an oropharyngeal airway. ○ **5.1.d.2 - Discuss** oropharyngeal airway types and sizes. ○ **5.1.d.3 - Perform** oropharyngeal airway sizing procedures. ○ **5.1.d.4 - Perform** insertion of an oropharyngeal airway. ○ **5.1.d.5 - Adjust** to changes in patient presentation.
O5.1.e	By the end of the course, the student will be able to: ○ **5.1.e.1 - Explain** the purposes of and indications for inserting a nasopharyngeal airway. ○ **5.1.e.2 - Perform** nasopharyngeal airway sizing procedures. ○ **5.1.e.3 - Perform** nasopharyngeal airway insertion. ○ **5.1.e.4 - Adjust** to changes in patient presentation.
O5.1.f	By the end of the course, the student will be able to: ○ **5.1.f.1 - Explain** the purposes of and indications for airway devices not requiring visualization of vocal cords and not introduced endotracheally. ○ **5.1.f.2 - Describe** various types of airway devices not requiring visualization of vocal cords and not introduced endotracheally. ○ **5.1.f.3 - Perform** sizing procedures for airway devices not requiring visualization of vocal cords and not introduced endotracheally. ○ **5.1.f.4 - Perform** insertion of airway devices not requiring visualization of vocal cords and not introduced endotracheally. ○ **5.1.f.5 - Adjust** to changes in patient presentation.
O5.1.g	By the end of the course, the student will be able to: ○ **5.1.g.1 - Explain** the purposes of and indications for airway devices not requiring visualization of vocal cords and introduced endotracheally. ○ **5.1.g.2 - Describe** various types of airway devices not requiring visualization of vocal cords and introduced endotracheally.
O5.1.h	By the end of the course, the student will be able to: ○ **5.1.h.1 - Explain** the purposes of and indications for airway devices requiring visualization of vocal cords and introduced endotracheally. ○ **5.1.h.2 - Describe** the various types of airway devices requiring visualization of vocal cords and introduced endotracheally.

Learning Objectives	Embedded Knowledge and Skills
O5.1.i	By the end of the course, the student will be able to: ○ **5.1.i.1 - Identify** the indications for AFB removal. ○ **5.1.i.2 - Describe** the methods of relieving airway obstructions ○ **5.1.i.3 - Describe** the differences in technique required for AFB removal in various age groups. ○ **5.1.i.4 - Perform** AFB removal under a variety of presentations. ○ **5.1.i.5 - Adjust** to changes in patient presentation. ○ **5.1.i.6 - Identify** potential complications of AFB removal.
O5.1.j	By the end of the course, the student will be able to: ○ **5.1.j.1 - Identify** the purposes of and indications for foreign body removal by forceps. ○ **5.1.j.2 - Describe** equipment used for foreign body removal by direct techniques. ○ **5.1.j.3 - Identify** potential complications of AFB removal by direct techniques.
O5.1.k	By the end of the course, the student will be able to: ○ **5.1.k.1 - Identify** the purposes of and indications for percutaneous cricothyroidotomy. ○ **5.1.k.2 - Describe** equipment used for percutaneous cricothyroidotomy. ○ **5.1.k.3 - Identify** potential complications of percutaneous cricothyroidotomy.
O5.1.l	By the end of the course, the student will be able to: ○ **5.1.l.1 - Identify** the purposes of and indications for surgical cricothyroidotomy. ○ **5.1.l.2 - Describe** equipment used for surgical cricothyroidotomy.
O5.2.a	By the end of the course, the student will be able to: ○ **5.2.a.1 - Describe** indications for oxygen administration. ○ **5.2.a.2 - Discuss** the purpose of oxygen administration. ○ **5.2.a.3 - Discuss** oxygen administration complications. ○ **5.2.a.4 - Describe** the safe handling of oxygen delivery systems. ○ **5.2.a.5 - Discuss** oxygen administration precautions. ○ **5.2.a.6 - Identify** different oxygen cylinder types and sizes. ○ **5.2.a.7 - Apply** the formulas that determine oxygen cylinder factors, volume (or type) and maximum filling volumes and duration. ○ **5.2.a.8 - Identify** various types of oxygen delivery systems. ○ **5.2.a.9 - Explain** the difference between portable and fixed delivery systems.

Learning Objectives	Embedded Knowledge and Skills
O5.2.b	By the end of the course, the student will be able to: ○ **5.2.b.1 - Describe** the sequential steps for setting up oxygen delivery systems. ○ **5.2.b.2 - Operate** oxygen delivery systems. ○ **5.2.b.3 - Demonstrate** cleaning and disinfection of oxygen delivery systems.
O5.3.a	By the end of the course, the student will be able to: ○ **5.3.a.1 - Identify** the purposes of and indications for the use of a nasal cannula. ○ **5.3.a.2 - List** the steps for administration of oxygen by nasal cannula. ○ **5.3.a.3 - Perform** oxygen administration using a nasal cannula. ○ **5.3.a.4 - Adjust** to changes in patient presentation.
O5.3.b	By the end of the course, the student will be able to: ○ **5.3.b.1 - Identify** the purposes of and indications for the use of a low concentration mask. ○ **5.3.b.2 - List** the steps for administration of oxygen by a low concentration mask. ○ **5.3.b.3 - Perform** oxygen administration using a low concentration mask. ○ **5.3.b.4 - Adjust** to changes in patient presentation.
O5.3.c	By the end of the course, the student will be able to: ○ **5.3.c.1 - Identify** the purposes of and indications for the use of a controlled concentration oxygen mask.
O5.3.d	By the end of the course, the student will be able to: ○ **5.3.d.1 - Identify** the purposes of and indications for the use of a high concentration mask. ○ **5.3.d.2 - List** the steps for administration of oxygen by a high concentration mask. ○ **5.3.d.3 - Perform** oxygen administration using a high concentration mask. ○ **5.3.d.4 - Adjust** to changes in patient presentation.
O5.3.e	By the end of the course, the student will be able to: ○ **5.3.e.1 - Identify** the purposes of and indications for the use of a pocket mask. ○ **5.3.e.2 - List** the steps for administration of oxygen by a pocket mask. ○ **5.3.e.3 - Perform** oxygen administration using a pocket mask. ○ **5.3.e.4 - Adjust** to changes in patient presentation.

Learning Objectives	Embedded Knowledge and Skills
O5.4.a	By the end of the course, the student will be able to: ○ **5.4.a.1 - Identify** the purposes of and indications for the use of a manual positive pressure device. ○ **5.4.a.2 - List** the steps for administration of oxygen by a manual positive pressure device. ○ **5.4.a.3 - Discuss** rate, rhythm, volume, compliance, and positive end expiratory pressure. ○ **5.4.a.4 - Perform** ventilation using a manual positive pressure device. ○ **5.4.a.5 - Distinguish** between one person and two-person application of a manual positive pressure device. ○ **5.4.a.6 - Evaluate** the effectiveness of ventilation. ○ **5.4.a.7 - Adjust** to changes in patient presentation.
O5.4.b	By the end of the course, the student will be able to: ○ **5.4.b.1 - Define** "mechanical ventilation". ○ **5.4.b.2 - Identify** the various types of mechanical ventilation equipment. ○ **5.4.b.3 - List** indications for mechanical ventilation.
O5.4.c	By the end of the course, the student will be able to: ○ **5.4.c.1 - Discuss** potential complications and safety issues when using mechanical ventilation. ○ **5.4.c.2 - Describe** vent circuit, end tidal carbon dioxide, manometer, and respirometer. ○ **5.4.c.3 - Differentiate** between intermittent mandatory ventilation, continuous mandatory ventilation, assist control, and inverse ratio ventilation. ○ **5.4.c.4 - Discuss** continuous positive airway pressure, positive end expiratory pressure, and noninvasive positive pressure ventilation. ○ **5.4.c.5 - Describe** blender, saturated oxygen. ○ **5.4.c.6 - Describe** compliance, resistance, plateau pressure, inspiratory pressure, expiratory pressure, peak expiratory pressure, tidal volume, and respiratory rate.

Learning Objectives	Embedded Knowledge and Skills
O5.4.d	By the end of the course, the student will be able to: ○ **5.4.d.1 - Describe** use of mechanical ventilator based on patient presentation. ○ **5.4.d.2 - Describe** the adjustment of parameters to changes in ventilatory and hemodynamic status. ○ **5.4.d.3 - Discuss** the use of mechanical ventilator based on patient presentation. ○ **5.4.d.4 - Discuss** the use of capnography and pulse oximetry.
O5.5.t	By the end of the course, the student will be able to: ○ **5.5.t.1 - Describe** indications for oral and nasal gastric intubation. ○ **5.5.t.2 - Identify** equipment for oral and nasal gastric intubation.

GRADING

Airway / Oxygenation / Ventilation Application Worksheet – 20%

Students will complete a short, applied worksheet requiring them to apply PCP-119 Trauma I airway, oxygenation, and ventilation concepts to patient-care scenarios. Students will identify airway concerns, select appropriate oxygenation or ventilation interventions, recognize safety concerns and complications, describe reassessment priorities, and identify relevant documentation requirements.

Students will also be evaluated through written examination & class participation. A minimum of **70%** must be attained to receive a passing grade for PCP-119 Trauma I.

Class Engagement	10%
Application Worksheet	20%
Final Exam	70%

EXPECTATIONS & TIPS FOR SUCCESS

Academic Standards and Workload: Appropriate professional tone is expected on all student submissions and examinations. This is to help build strong professional practice skills.

A typical PCP course should require 1-2 hours per week of out-of-class work. This time may vary depending on how quickly you read and comprehend assigned course materials.

Classroom Protocol: Students are expected to be courteous and respectful of others, and mindful that a classroom is a shared working space with the primary goal of learning course material.

Unnecessary distractions are to be minimized – that includes turning off cell phones and other distracters during lectures unless permission has been granted by the instructor.

Tardiness is strongly discouraged as it is in the Paramedic workplace. If for some reason you arrive late, please wait and enter the class during break.

Unless otherwise notified by the class instructor, attendance to all classes is mandatory. Absences will be dealt with on a case-by-case basis.

Deadlines and Late Penalties: Course deliverables submitted after the due date will be assigned a grade of zero (0). This penalty may be waived at the discretion of the instructor in the event of extraordinary or special circumstances (with supporting verification/documentation).

Engagement Points: A student's engagement will be graded out of 100 (representing 10% of the overall course mark). Students will be evaluated on their attendance and participation in every class. Each class will be worth an equal portion of the total 100 points. (See: *Engagement Rubric* in the Resource Folder.)

Absence Due to Special Circumstances or Illness: Let the Instructor know in advance if you need to be away due to special circumstances. If the event conflicts with class examinations, verification of the reason for absence will be required. **Total Amount of Absences Permitted** = 2 classes.

Academic Integrity: In order to maintain a culture of academic integrity, members of the OLS Academy community are expected to promote honesty, trust, fairness, respect, and responsibility.

Communication Methods: Most communications regarding PCP-119 will be done during class sessions. Special announcements will be posted on the OLS Academy website. Emails sent to students will be sent from academy@omnilifesupport.com. Students can email the instructor at Kailee.Heath@omnilifesupport.com.

This outline is subject to change at the discretion of academy administrators.

Engagement Points: A student's engagement will be graded out of 100. Please reference the applicable Course Outline, for weighting of Engagement Points.

Engagement points are evaluated using the following scale:

Fully Engaged (Full Points)	• Student is present in class, has an absence excused by Faculty (e.g., medical appointment that cannot be scheduled outside of class hours), or, situation permitting, student is virtually present at lectures they are unable to attend physically. • Student comes to class prepared. • Student is not distracted by irrelevant activities on phone or another electronic device. • Student makes thoughtful contributions to the conversation. • Student shows an interest in and respect for the contribution of others. • Student actively participates in group activities. • Student hands in assignments in a timely manner.
Partially Engaged (Half Points)	• Student is late for class. • Student is present but has not prepared for class. • Student is distracted by irrelevant activities on phone or another electronic device but discontinues behaviour when requested. • Student does not make thoughtful contributions to the conversation. • Student requires guidance from an instructor to behave appropriately; inappropriate behaviour is discontinued upon request. • Student is present but requires prompting and guidance to actively participate in group activities. • Student hands in assignments passed assigned deadline.
Disengaged (No Points)	• Student is absent from class and, situation permitting, student refuses offer from Faculty to be virtually present at lectures they are unable to attend physically. • Student is distracted by irrelevant activities on phone or another electronic device but does not discontinue behaviour when requested. • Student requires guidance from an instructor to behave appropriately; inappropriate behaviour is not discontinued upon request. • Student displays disrespect to instructor and/or other students. • Student is present but does not participate in group activities. • Student does not hand in assignments.