

Advanced Cardiovascular Life Support

Learning Station Outline

Oxygenation and Airway Management

The Oxygenation and Airway Management station is a 30 minute rotation consisting of combined respiratory and airway related content. This station will consist of 2 sections and will integrate clinical knowledge, simulation and hands-on practice.

A. *Respiratory Emergencies and Oxygen Therapy*

1. Instructors should discuss common respiratory emergencies for the adult population and incorporate recommendations for oxygen therapy.
2. At the end of this section, students should be familiar with:
 - Oxygen delivery methods and flow rates for the nasal cannula, non-rebreather mask and aerosol mask devices;
 - Pulse Oximetry devices and oxygen saturation value recommendations for the non-cardiac arrest patient; and
 - Waveform capnography and ETCO₂ measurement and its importance during cardiac arrest resuscitation

B. *Management of the Airway*

1. Instructors should verbalize and demonstrate step-by-step basic and advanced treatment options, while allowing time for hands-on practice.
2. At the end of this section, students should be familiar with:
 - The head-tilt, chin-lift maneuver to open the airway for patients with no suspected cervical spine injury;
 - The modified jaw thrust maneuver to open the airway for patients with suspected cervical spine injury;
 - Demonstrate the measurement and insertion of the OPA/NPA airway and their indications/contraindications;
 - Demonstrate the correct process of suctioning a patient with a French suction catheter and yankauer handle using a portable suction device;
 - Demonstrate using a Bag Valve Mask to effectively manage a simulated respiratory arrest case for 1 minute; and
 - Identify Advanced Airway devices (ET tube, King Ltd, LMA) and their indications/contraindications

*Note: Endotracheal Intubation (ETI) is no longer a priority in this station, as this advanced skill does not typically fall within the Scope of Practice for many students. Instructors may demonstrate the skill or answer treatment related questions specific to ETI **ONLY** if time permits. ETI training equipment will remain available in this station for special situations*