## Airway Management

### Presentation guide

DC = Statement of the competence for a particular domain  
E = Elements of the competence for a specific statement of competence  
P = Performance criteria for competency; associated with a specific element of the competence

### Domain of competence DC.11

**Perform airway management techniques on patients in a clinical setting**

### E11.1 Insert nasopharyngeal airways

- **P11.1.1** Discuss the indications for inserting a nasopharyngeal airway
- **P11.1.2** Demonstrate equipment and patient preparation
- **P11.1.3** Insert nasopharyngeal airways in a clinical setting

### E11.2 Manage nasopharyngeal airways

- **P11.2.1** Describe nasopharyngeal airway complications and corrective action
- **P11.2.2** Monitor patient with a nasopharyngeal airway, recognize complications and take corrective action in a clinical setting

### E11.3 Remove nasopharyngeal airways

- **P11.3.1** Describe procedure for removal of nasopharyngeal airways
- **P11.3.2** Remove nasopharyngeal airways in a clinical setting

### E11.4 Insert oropharyngeal airways

- **P11.4.1** Discuss the indications for inserting an oropharyngeal airway
- **P11.4.2** Demonstrate equipment and patient preparation
- **P11.4.3** Insert oropharyngeal airways in a clinical setting

### E11.5 Manage oropharyngeal airways

- **P11.5.1** Describe oropharyngeal airway complications and corrective action
- **P11.5.2** Monitor patient with a oropharyngeal airway, recognize complications and take corrective action in a clinical setting


**E11.6 Remove oropharyngeal airways**

- P11.6.1 Describe procedure for removal of oropharyngeal airways
- P11.6.2 Remove oropharyngeal airways in a clinical setting

**E11.7 Perform bag/mask ventilation with self-inflating resuscitator**

- P11.7.1 Describe the common components of self-inflating manual resuscitators, including accessories (i.e., pressure relief and PEEP valves)
- P11.7.2 Discuss the application of a self-inflating manual resuscitator with various accessories including PEEP devices
- P11.7.3 Describe the factors affecting the delivered oxygen concentration and lung volume
- P11.7.4 Identify potential complications and related corrective action
- P11.7.5 Perform bag/mask ventilation with a self-inflating resuscitator on patients in a clinical setting
- P11.7.6 Assess patient response and make necessary adjustments

**E11.8 Perform bag/mask ventilation with flow-inflating resuscitator**

- P11.8.1 Describe the components of flow-inflating manual resuscitator, including accessories (i.e., pressure relief and PEEP valves)
- P11.8.2 Describe the factors affecting the delivered oxygen concentration and lung volume while ventilating a patient with a flow-inflating manual resuscitator
- P11.8.3 Identify potential complications and related corrective action per use of a flow-inflating manual resuscitator
- P11.8.4 Compare the application of ventilation using a self-inflating manual resuscitator versus a flow-inflating resuscitator
- P11.8.5 Perform bag/mask ventilation with a flow-inflating resuscitator on patients in a clinical setting
- P11.8.6 Assess patient response and make necessary adjustments

**E11.9 Perform endotracheal intubation**

- P11.9.1 Describe the indications for endotracheal intubation
- P11.9.2 Compare the procedures for endotracheal intubation applicable in distinct clinical situations and potential complications
- P11.9.3 Describe equipment and patient preparation for endotracheal intubation for particular clinical situations
- P11.9.4 Assess need for endotracheal intubation in patients in a clinical setting
- P11.9.5 Perform endotracheal intubation on patients in a clinical setting while ensuring adequate ventilation throughout procedure
- P11.9.6 Assess effectiveness of ventilation and oxygenation, secure tube and inflate cuff of intubated patients in a clinical setting
E11.10 Assist with endotracheal intubation

P11.10.1 Prepare equipment and patient for endotracheal intubation
P11.10.2 Assist with endotracheal intubation in a clinical setting
P11.10.3 Assess ventilation and oxygenation, secure tube and inflate cuff of intubated patients in a clinical setting

E11.11 Manage endotracheal tubes

P11.11.1 Assess adequacy of ventilation and oxygenation, and monitor the intubated patient
P11.11.2 Assess patent airway, tube placement and cuff seal for intubated patients in a clinical setting and take corrective action
P11.11.3 Recognize complications and take corrective action for intubated patients in a clinical setting

E11.12 Change endotracheal tubes

P11.12.1 Assess need for changing or discontinuing the application of an endotracheal tube in a clinical setting
P11.12.2 Prepare the equipment necessary for changing an endotracheal tube in a clinical setting
P11.12.3 Perform extubation and re-intubation of patients in a clinical setting, while maintaining a patent airway and adequate ventilation
P11.12.4 Assess effectiveness of ventilation, secure tube and inflate cuff of intubated patients in a clinical setting
P11.12.5 Recognize complications and take corrective action for re-intubated patients in a clinical setting

E11.13 Remove endotracheal tubes

P11.13.1 Assess need to remove endotracheal tubes in patients in a clinical setting
P11.13.2 Describe method for removal of endotracheal tubes
P11.13.3 Prepare equipment and patient for removal of endotracheal tubes in patients in a clinical setting
P11.13.4 Extubate patients in a clinical setting
P11.13.5 Monitor patient response while assuring a patent airway, adequate ventilation and oxygenation in patients in a clinical setting
P11.13.6 Continue to monitor for possible complications and take corrective action in patients following removal of an endotracheal tube in a clinical setting
E11.14  Perform ventilation via artificial airway with a self-inflating resuscitator

P11.14.1 Determine need for manual ventilation via artificial airway using a self-inflating resuscitator
P11.14.2 Perform ventilation via artificial airway with a self-inflating manual resuscitator on patients in a clinical setting
P11.14.3 Assess ventilation and oxygenation via artificial airway with a self-inflating manual resuscitator
P11.14.4 Assess patient response and make necessary adjustments during ventilation via artificial airway with a self-inflating resuscitator

E11.15  Perform ventilation via artificial airway with a flow-inflating resuscitator

P11.15.1 Determine need for manual ventilation via artificial airway using a flow-inflating resuscitator
P11.15.2 Perform ventilation via artificial airway with a flow-inflating manual resuscitator on patients in a clinical setting
P11.15.3 Assess ventilation and oxygenation via artificial airway with a flow-inflating manual resuscitator
P11.15.4 Assess patient response, and make necessary adjustments during ventilation via artificial airway with a self-inflating manual resuscitator

E11.16  Insert tracheostomy

P11.16.1 Describe the procedure and indications for insertion of a tracheostomy tube
P11.16.2 Distinguish potential complications associated with a tracheostomy
P11.16.3 Describe equipment and patient preparation for insertion of a tracheostomy tube
P11.16.4 Perform insertion of a tracheostomy tube on patients in a clinical setting while ensuring adequate ventilation throughout procedure
P11.16.5 Assess ventilation and oxygenation secure tracheostomy tube and inflate cuff in patients in a clinical setting

E11.17  Assist with tracheostomy

P11.17.1 Prepare equipment and patient for insertion of a tracheostomy tube for particular clinical situations
P11.17.2 Assist during insertion of a tracheostomy tube in patients in a clinical setting
P11.17.3 Assess ventilation and oxygenation secure tube and inflate cuff of tracheostomy tube in patients in a clinical setting
E11.18 Manage tracheostomy tubes

P11.18.1 Assess ventilation and oxygenation, and monitor patient response while tracheostomized in a clinical setting
P11.18.2 Provide stoma, tube and cuff care for tracheostomized patients in a clinical setting
P11.18.3 Assess patent airway for tracheostomized patients in a clinical setting and take corrective action per need
P11.18.4 Monitor for complications and take corrective action for tracheostomized patients in a clinical setting

E11.19 Change tracheostomy tubes

P11.19.1 Assess need to change tracheostomy tubes in a clinical setting
P11.19.2 Prepare the equipment necessary to change tracheostomy tube in a clinical setting
P11.19.3 Perform insertion of a new tracheostomy tube in patients in a clinical setting, while maintaining a patent airway and adequate ventilation
P11.19.4 Assess ventilation and oxygenation secure tube and inflate cuff of tracheostomy tubes in patients in a clinical setting
P11.19.5 Monitor for complications and take corrective action in a clinical setting

E11.20 Remove tracheostomy tubes

P11.20.1 Assess need to remove tracheostomy tubes in patients in a clinical setting
P11.20.2 Describe method for removal of tracheostomy tubes
P11.20.3 Prepare equipment and patient for removal of tracheostomy tubes in patients in a clinical setting
P11.20.4 Remove tracheostomy tubes in patients in a clinical setting
P11.20.5 Monitor patient response while assuring a patent airway, adequate ventilation and oxygenation and stoma care in patients in a clinical setting
P11.20.6 Continue to monitor and take corrective action in patients following removal of a tracheostomy tube in a clinical setting

E11.21 Care for and maintain various types of surgical airways (e.g., laryngectomy)

P11.21.1 Compare the application of surgical airways
P11.21.2 Describe complications and corrective action associated with the use of specific surgical airways
P11.21.3 Assess ventilation and oxygenation, and monitor patient with a surgical airway while in a clinical setting
P11.21.4 Take corrective action as necessary in patients with a surgical airway in a clinical setting

**E11.22 Utilize specialized techniques and adjuncts to facilitate endotracheal intubation (e.g., fiberoptic assisted laryngoscopy)**

P11.22.1 Distinguish difficulties associated with the insertion of an endotracheal tube
P11.22.2 Compare specialized techniques and adjuncts utilized to facilitate insertion of an endotracheal tube
P11.22.3 Prepare the material necessary to facilitate a potentially difficulty endotracheal intubation in a clinical setting
P11.22.4 Prepare the patient for a difficult endotracheal intubation in a clinical setting
P11.22.5 Perform endotracheal intubation using specialized techniques and adjuncts on patients in a clinical setting while ensuring adequate ventilation throughout procedure
P11.22.6 Assess ventilation and oxygenation, secure tube and inflate cuff of intubated patients in a clinical setting

**E11.23 Insert laryngeal masks**

P11.23.1 Describe indications and the procedure for insertion of a laryngeal mask
P11.23.2 Describe equipment and patient preparation for insertion of a laryngeal mask
P11.23.3 Identify complications and corrective action associated with the use of a laryngeal mask
P11.23.4 Assess need for use of laryngeal mask in patients in a clinical setting
P11.23.5 Perform insertion of laryngeal masks in patients in a clinical setting while ensuring adequate ventilation throughout procedure and insert bite block
P11.23.6 Assess ventilation and oxygenation, secure and inflate laryngeal mask in a clinical setting

**E11.24 Manage laryngeal masks**

P11.24.1 Maintain patent airway, adequate ventilation and oxygenation for patients in a clinical setting
P11.24.2 Provide laryngeal mask and cuff care for patients in a clinical setting
P11.24.3 Monitor for complications and take corrective action for patients in a clinical setting
**E11.25 Remove laryngeal masks**

P11.25.1 Describe indications and method for removal of a laryngeal mask
P11.25.2 Prepare equipment and patient for removal of laryngeal mask in patients in a clinical setting
P11.25.3 Remove laryngeal masks in patients in a clinical setting
P11.25.4 Monitor patient response while assuring a patent airway, adequate ventilation and oxygenation in patients in a clinical setting
P11.25.5 Continue to monitor for complications and take corrective action in patients in a clinical setting

**E11.26 Manage difficult airway**

P11.26.1 Describe clinical situations involving a difficult airway and corrective action
P11.26.2 Assess ventilation and oxygenation, and monitor patient response in a clinical setting
P11.26.3 Recognize complications and take corrective action for patients with a difficult airway in a clinical setting

**E11.27 Assist with insertion of specialized airways (e.g., armored tubes, double lumen tubes)**

P11.27.1 Compare the application and design of specialized airways
P11.27.2 Assess the need for use of a specialized airway in a particular clinical situation
P11.27.3 Prepare equipment and patient for insertion of a specialized airway for particular clinical situations
P11.27.4 Assist during insertion of specialized airways in patients in a clinical setting
P11.27.5 Assess ventilation and oxygenation, secure tube and inflate cuff of patients in a clinical setting

**E11.28 Manage specialized airways (e.g., armored tubes, double-lumen tubes)**

P11.28.1 Assess the patient with specialized airways for adequacy of ventilation and oxygenation while in a clinical setting
P11.18.2 Provide specialized airway and cuff care for patients in a clinical setting
P11.18.3 Monitor for complications and take corrective action patients with a specialized airway in a clinical setting
E11.29  **Remove specialized airways (e.g., armored tubes, double-lumen tubes)**

P11.29.1 Assess need to remove specialized airway in patients in a clinical setting
P11.29.2 Describe method for removal of specialized airways
P11.29.3 Prepare equipment and patient for removal of specialized airway in patients in a clinical setting
P11.29.4 Remove specialized airway in patients in a clinical setting
P11.29.5 Monitor patient response while assuring a patent airway, adequate ventilation and oxygenation in a clinical setting
P11.29.6 Continue to monitor for complications and take corrective action in patients in a clinical setting

E11.30  **Wean from artificial airway intervention**

P11.30.1 Describe method for weaning patient from artificial airway intervention
P11.30.2 Assess needs to wean patient from artificial airway intervention
P11.30.3 Prepare equipment and patient for weaning from artificial airway in a clinical setting
P11.30.4 Wean patient from artificial airway in a clinical setting while maintaining ventilation during procedure
P11.30.5 Monitor patient response while assuring patent airway, adequate ventilation and oxygenation in a clinical setting
P11.30.6 Continue to monitor for complications and take corrective action in patients wean from artificial airways in a clinical setting

E11.31  **Assist with speech therapy (e.g., speech valves)**

P11.31.1 Describe methods utilized to enable patient to communicate verbally
P11.31.2 Assess patient readiness for the application of speech therapy
P11.31.3 Instruct and assist patients ready for speech therapy in a clinical setting
P11.31.4 Determine effectiveness of speech therapy on patients in a clinical setting