



BUREAU OF OPERATIONS  
EMS COMMAND ORDER 2010-175  
October 1, 2010

MONTHLY DRILL FOR OCTOBER 2010

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1. GENERAL INFORMATION

- 1.1 The designated drill for October 2010 is Core Skill: Airway Management. The Journal CME article for October 2010 is Pediatric Respiratory Disease and Airway Management. Station Officers shall conduct drills in accordance with EMS Operating Guide Procedure 104-03, Addendum 2, *Drills and Instruction Periods*. Journal CME shall be completed in accordance with EMS Command Order 2009 – 112, *Journal Continuing Medical Education*.
- 1.2 The Drill includes a review of summary of Operating Guide Procedures and Command Orders issued between September 1, 2010 and October 1, 2010 (EMS Command Orders 2010-158 to 2010-175) that effected policy or procedures. All members should be familiar with these orders. The original orders are available for review on the FDNY Intranet which can be accessed through the station and ePCR computers.
- 1.3 Video drill materials have been distributed by the EMS Academy. The other training materials have been distributed from EMS Operations via e-mail and through TRAQs. **Station Commanding Officers shall contact the EMS Academy if the video and training devices have not been received.**

2. PROCEDURE

- 2.1 Officers shall prepare for the monthly drill by reviewing the drill materials, facilitator guide, skill sheets and the original Command Orders listed in the policy and procedure review.
- 2.2 EMS Officers conducting drills shall discuss the details of each order in the policy and procedure review with members during drill and instruction periods.
- 2.3 Officers shall distribute the Journal CME to each member and ensure each member completes the associated quiz in TRAQs.

3. MATERIALS

- 3.1 Core Skill: Airway Management DVD, facilitator guide and skill sheets.
- 3.2 Pediatric Respiratory Disease and Airway Management Journal CME article.

**4. POLICY AND PROCEDURE REVIEW**

**4.1 EMS Command Orders**

- 2010-162 Announces the Mayor's Graduate Scholarship Program opportunities.
- 2010-164 Describes changes to the Computer-Aided Dispatch (CAD) system.
- 2010-166 Announces Rescue Paramedic recruitment opportunities.
- 2010-167 Reiterates when a prehospital care report must be prepared.
- 2010-170 Announces a Deputy Chief promotion.
- 2010-171 Announces the Naval Postgraduate School (NPS) Center for Homeland Defense and Security Master's Degree Program application period.
- 2010-172 Announces Mayor's Graduate Scholarship Program information sessions.
- 2010-173 Announces John Jay College information sessions.

**BY ORDER OF THE CHIEF OF EMS COMMAND**

**Skill  
Station 2**

**New York City Fire Department  
Emergency Medical Services**

**UPPER AIRWAY ADJUNCTS & SUCTION EVALUATION**

(PLEASE PRINT)

Participant Name: \_\_\_\_\_ Shield \_\_\_\_\_ Station: \_\_\_\_\_

Evaluator: \_\_\_\_\_ Shield: \_\_\_\_\_ Start Time: \_\_\_\_\_ Stop Time: \_\_\_\_\_

**SUCTION**

	Possible:	Awarded:
<b>Note: The examiner must advise the candidate to suction the patient's airway</b>	1	
Takes Body substance isolation precautions		
Turns on/prepares suction device	1	
Assures presence of mechanical suction	1	
Inserts the suction tip without suction	1	
Applies suction to the oropharynx / nasopharynx	1	
Candidate demonstrated acceptable suction technique	C	

**OROPHARYNGEAL AIRWAY**

Takes, or verbalizes, body substance isolation precautions	C	
Selects appropriately sized airway	1	
Measures airway	1	
Inserts airway without pushing the tongue posteriorly	1	
<b>Note: The examiner must advise the candidate that the patient is gagging and becoming conscious</b>	N/A	
Removes the oropharyngeal airway anatomically	1	

**NASOPHARYNGEAL AIRWAY**

<b>Note: The examiner must advise the candidate to insert a nasopharyngeal airway</b>	N/A	N/A
Selects appropriately sized airway	1	
Measures airway	1	
Verbalizes lubrication of the nasal airway	1	
Fully inserts the airway with the bevel facing toward the septum	1	
Candidate did not insert any adjunct in a manner dangerous to the patient	C	
Candidate completed the station within the 5 minute time limit	C	

Total points possible = 12

TOTAL: \_\_\_\_\_

**Candidate must complete all critical (C) criteria and receive at least 8 points to pass**

**Skill  
Station 4**

**New York City Fire Department  
Emergency Medical Services**

**BAG-VALVE-MASK APNEIC WITH A PULSE EVALUATION**

(PLEASE PRINT)

Participant Name: \_\_\_\_\_ Shield \_\_\_\_\_ Station: \_\_\_\_\_

Evaluator: \_\_\_\_\_ Shield: \_\_\_\_\_ Start Time: \_\_\_\_\_ Stop Time: \_\_\_\_\_

	Possible:	Awarded:
Takes, or verbalizes, body substance isolation precautions	C	
Opens the airway	1	
Inserts an airway adjunct	1	
Selects appropriately sized mask	1	
Creates a proper mask-to-face seal	1	
Ventilates patient at a rate of 10 – 12 breaths per minute (approximately once every 5 – 6 seconds)	1	
Connects reservoir and oxygen	1	
Adjusts liter flow to 15 liters per minute or greater	C	
The examiner indicates the arrival of a second EMT The second EMT is instructed to ventilate the patient while the candidate controls the mask and the airway	1	
Reopens the airway	1	
Creates a proper mask-to-face seal	1	
Instructs assistant to resume ventilations at an adequate volume to achieve visible chest rise.	1	
Instructs assistant to resume ventilations at a rate of 10 – 12 breaths per minute (approximately once every 5 – 6 seconds) (The examiner must witness for a minimum of 30 seconds)	1	
Ventilates patient at an adequate volume to achieve visible chest rise	C	
Did not interrupt ventilations for more than 20 seconds at any time	C	
Candidate ventilated patient prior to connecting supplementary oxygen	C	
Adequate ventilation volumes (did not over or under ventilate)	C	
Allowed for adequate exhalation	C	
Candidate completed station within the 4 minute time limit	C	

Total points possible = 11

Candidate must complete all critical (C) criteria and receive at least 8 points to pass.

TOTAL: \_\_\_\_\_



**CORE SKILL: AIRWAY MANAGEMENT  
FACILITATOR GUIDE**

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**1. DESCRIPTION**

- 1.1 This month's drill will reinforce the ability of all EMTs and Paramedics to successfully manage airway and respiratory emergencies utilizing the NYS DOH airway management practical skills standards. The video will also include a brief review of the Laerdal Suction unit. Being able to properly assemble, test and operate this device is critical for maintaining a patent airway. Opening and maintaining a patent airway as well as providing supplemental oxygen is one of the most important skills that EMTs and Paramedics possess. It is during the initial assessment that many conditions affecting the airway and respiratory systems will be identified and if left untreated, can have catastrophic consequences. The majority of patients encountered by EMS providers will be conscious and may only need supplemental oxygen and to be monitored for changes in their condition. A patient whose mental status is altered or is unresponsive may require suctioning, airway adjuncts or assisted ventilations. Constant re-evaluation of a patient's condition may identify life threatening problems, which if corrected promptly, may save the patient's life. Proper assessment and management skills will enable all EMTs and Paramedics to provide the highest quality of care possible. All EMS providers must be able to successfully perform the airway management skills according to the New York State Department of Health EMS standards.

**2. LESSON OBJECTIVES**

- 2.1 At the end of this lesson the participants will be able to:
- 2.1.1 State the goals of properly assessing and rapidly correcting life threatening airway and respiratory emergencies.
  - 2.1.2 Identify how to properly assemble, test and operate the Laerdal suction unit.
  - 2.1.3 Identify the BLS practical skills necessary to properly manage an airway.
  - 2.1.4 Successfully perform the airway management skills according to the New York State Department of Health standards.

**3. SKILLS**

- 3.1 Equipment assembly and administration of supplemental oxygen.
- 3.2 Upper airway management utilizing an oropharyngeal and nasopharyngeal airways and suctioning.

3.3 Mouth to mask ventilation with supplemental oxygen.

3.4 Ventilating a patient utilizing a bag valve mask.

#### **4. EQUIPMENT**

4.1 DVD player and CORE SKILL: AIRWAY MANAGEMENT drill DVD

4.2 Body substance isolation equipment

4.3 Airway trainer manikin and Rescuci-Anne manikin \*(with cut off OPA)

4.3.1 Officers shall use the Airway trainer manikin for the Equipment Assembly and administration of Supplemental Oxygen station (1) and the Upper Airway Management and Suctioning station (2).

4.3.2 Officers shall use the Resusci-Anne CPR manikin and \*cut off OPA for the Mouth to Mask Ventilation station (3) and the Ventilatory Support utilizing a BVM station (4).

4.4 Oxygen cylinder, oxygen regulator with washer and oxygen key

4.5 Non-rebreather mask and nasal cannula

4.6 Assorted sizes OPAs, NPAs and water soluble lubricant

4.7 Laerdal suction unit with rigid tip catheter and suction tubing

4.8 Pocket face mask with one way valve, oxygen inlet and oxygen tubing

4.9 Bag valve mask

#### **5. DRILL**

5.1 The Officer should review the "CORE SKILL: AIRWAY MANAGEMENT" video with the crews.

5.2 The DVD video drill should be viewed in its entirety by all participants and the skills practiced during selected times in the video.

5.3 The Officer should utilize the practical skill forms at the designated practice times during the video and evaluate participant's performance.

5.4 Each crew member should perform all skill stations according to the NYS DOH standards for the designated skill as demonstrated in the video.

- 5.5 The Officer should discuss with the participants:
- 5.5.1 Appropriate PPE to be utilized when performing airway management skills as well as EMS Command Order 2010-004 which describes proper PPE to be utilized during suctioning.
  - 5.5.2 Importance of rapidly identifying and aggressively correcting airway and respiratory emergencies.
  - 5.5.3 Importance of correctly performing the airway management skills in order to maintain a patent airway and adequate oxygenation.
  - 5.5.4 Reviewing and practicing the NYS DOH practical skills allows all EMS providers to maintain proficiency in the skills and enables delivery of high quality patient care.
  - 5.5.5 All FDNY members participating in the 5 year recertification program are subject to evaluation on any practical skill by a NYS DOH representative.
- 5.6 Included with the distribution of the drill DVD will be a “cut off OPA” for use in the pocket face mask and BVM skill stations. This “cut off OPA” should be utilized during the step in each of these stations that require an insertion of an airway adjunct. The Resusci Anne CPR manikin does not allow the insertion of an actual OPA. The Resusci Anne CPR manikin must be used during these two stations since there is a need to “open the airway” (head tilt/chin lift) which can’t be successfully performed on the Airway trainer manikin. The evaluator should also be looking for adequate chest rise which can only be accomplished with the Resusci Anne CPR manikin. The Airway manikin trainer can be ventilated without completing the head tilt chin lift maneuver and should not be used for the pocket face mask or BVM skill stations.
- 5.7 Officers shall read the instructions prior to the participants performing the skill. Instructions are included in the facilitator notes following the timeline.

## 6. REFERENCES

- 6.1 AAOS Emergency Care and Transportation of the Sick and Injured Ninth Edition Copyright 2005 Jones and Bartlett Publishers
- 6.2 New York State Department of Health Bureau of Emergency Medical Services Practical Examination Skills August 2006 Edition

# TIMELINE

<u>Task</u>	<u>Materials</u>	<u>Skill</u>	<u>Video &amp; or Skill Time</u>	<u>Responsibilities</u>
Prepare skills area and gather equipment	Refer to Section 3 (Equipment) above and/or video	None	None	Officer and Crew
Didactic and video presentation. (Intro)	Drill notes and DVD	None	4 min	Officer
(Station 1) Equipment Assembly and Administration of Supplemental Oxygen	BSI, Airway trainer manikin, oxygen cylinder, oxygen regulator with washer, oxygen key, non- rebreather and nasal cannula	Participants shall complete the Equipment assembly and administration of Supplemental Oxygen station according to NYS DOH skill standards  ( 4 minutes each participant )	14 min	Officer to evaluate participant's performance utilizing the practical skill form
(Station 2) Upper Airway Management and Suctioning	BSI, Airway trainer manikin, assorted sizes OPAs and NPAs, water soluble lubricant	Participants shall complete the Upper Airway Management and Suctioning station according to NYS DOH skill standards  ( 4 minutes each participant )	18 min	Officer to evaluate participant's performance utilizing the practical skill form

<u>Task</u>	<u>Materials</u>	<u>Skill</u>	<u>Video &amp; or Skill Time</u>	<u>Responsibilities</u>
<b>(Station 3)</b> <b>Mouth to Mask Ventilation with Supplemental Oxygen</b>	BSI, Resusci Anne manikin, pocket face mask with one way valve and oxygen inlet, cut off OPA, Oxygen cylinder and regulator, oxygen tubing	Participants shall complete the Mouth to Mask Ventilation with Supplemental Oxygen station according to NYS DOH skill standards  ( 4 minutes each participant )	12 min	Officer to evaluate participant's performance utilizing the practical skill form
<b>(Station 4)</b> <b>Ventilatory Support utilizing a BVM</b>	BSI, Resusci Anne manikin, bag valve mask, cut off OPA, Oxygen cylinder and regulator, oxygen tubing	Participants shall complete the Ventilatory Support utilizing a BVM station according to NYS DOH skill standards  ( 4 minutes each participant )	12 min	Officer to evaluate participant's performance utilizing the practical skill form
<b>DISCUSSION AND CRITIQUE</b>	RESTOCK EQUIPMENT	None	5 min	Officer and Crew

## **Facilitator Notes:**

**(ALL TIMES ARE ESTIMATED AND ARE ONLY INTENDED AS A GUIDE IN ORDER TO FACILITATE COMPLETION OF THE DRILL)**

Attached are the practical skills evaluation forms for:

- **Equipment Assembly and Administration of Supplemental Oxygen**
- **Upper Airway Management and Suctioning**
- **Mouth to Mask Ventilation with Supplemental Oxygen**
- **Ventilatory Support utilizing a BVM**

### **Instructions to be read to participants prior to performing skill:**

**Station 1:** This station is designed to test your ability to correctly assemble the equipment needed to administer supplemental oxygen in the pre-hospital setting. This is an isolated skill test. You will be required to assemble an oxygen tank and a regulator and administer oxygen to a patient using a non-rebreather mask and the using a nasal cannula since the patient was unable to tolerate the mask. Once you initiate Oxygen administration using a nasal cannula, you will be instructed to discontinue its use. You have 4 minutes to complete this skill.

**Station 2:** This station is designed to test your ability to properly measure, insert and remove an OPA, an NPA and to properly suction a patient's upper airway. This is an isolated skill comprised of three separate skills. You have 4 minutes to complete this station.

**Station 3:** This station is designed to test your ability to ventilate a patient with supplemental oxygen using a mouth to mask technique. This is an isolated skill. You may assume the patient has no spinal compromise and a carotid pulse. The only patient management required is ventilatory support using the mouth to mask technique and supplemental oxygen. You must ventilate the patient for 30 seconds. You will be evaluated on the appropriateness of ventilatory volumes. You have 4 minutes to complete this skill.

**Station 4:** This station is designed to test your ability to ventilate a patient using a BVM device. As you enter the station you find a patient apneic with a carotid pulse. There are no bystanders and artificial ventilations have not been initiated. The only management necessary is airway management and ventilatory support. You must initially ventilate the patient for a minimum of 30 seconds prior to connecting the supplementary oxygen source. I will inform you that second rescuer has arrived and will instruct you that you must control the airway and mask seal while the second rescuer provides ventilations. You will be evaluated on the appropriateness of ventilatory volumes. You have 5 minutes to complete this station.

**Skill  
Station 3**

**New York City Fire Department  
Emergency Medical Services**

**MOUTH-TO-MASK WITH SUPPLEMENTAL OXYGEN**

(PLEASE PRINT)

Participant Name: \_\_\_\_\_ Shield \_\_\_\_\_ Station: \_\_\_\_\_

Evaluator: \_\_\_\_\_ Shield: \_\_\_\_\_ Start Time: \_\_\_\_\_ Stop Time: \_\_\_\_\_

	Possible:	Awarded:
Takes, or verbalizes, body substance isolation precautions	C	
Connects one-way valve to mask	1	
Opens patient's airway or confirms patient's airway is open (manually or with adjunct)	1	
Establishes and maintains a proper mask to face seal	1	
Ventilates the patient at the proper volume to achieve visible chest rise and at the appropriate rate (10 – 12 breaths per minute or once every 5 – 6 seconds)	1	
Connects the mask to high concentration of oxygen	1	
Adjusts flow rate to at least 15 liters per minute	C	
Continues ventilation of the patient at the proper volume to achieve visible chest rise and at the appropriate rate (10 – 12 breaths per minute or once every 5 – 6 seconds)	1	
<b>Note: The examiner must witness ventilations for at least 30 seconds</b>	N/A	N/A
Candidate provided proper volume per breath (visible chest rise without over or under inflation)	C	
Candidate did not interrupt ventilations for more than 20 seconds at any time	C	
Candidate ventilated patient prior to connection of supplementary oxygen	C	
Candidate allowed for adequate exhalation	C	
Candidate completed the station within the 4 minute time limit	C	

**Total points possible = 6**

**TOTAL: \_\_\_\_\_**

**Candidate must complete all critical (C) criteria and receive at least 4 points to pass.**

**Skill  
Station 1**

**New York City Fire Department  
Emergency Medical Services**

**SUPPLEMENTAL OXYGEN ADMINISTRATION EVALUATION**

(PLEASE PRINT)

Participant Name: \_\_\_\_\_ Shield \_\_\_\_\_ Station: \_\_\_\_\_

Evaluator: \_\_\_\_\_ Shield: \_\_\_\_\_ Start Time: \_\_\_\_\_ Stop Time: \_\_\_\_\_

Possible: Awarded:

Takes, or verbalizes, body substance isolation precautions	C	
Assembles the regulator to the tank	1	
Opens the tank	1	
Checks for leaks	1	
Checks and verbalizes tank pressure	1	
Attaches non-rebreather mask to oxygen	1	
Prefills reservoir	C	
Adjusts liter flow to 12 liters per minute or greater	C	
Applies and adjusts the mask to the patient's face	1	
<b>Note: The examiner must advise the candidate that the patient is not tolerating the non-rebreather mask. The examiner must instruct the candidate to remove the non-rebreather mask and apply a nasal cannula to the patient.</b>	N/A	N/A
Attaches nasal cannula to oxygen	1	
Adjusts liter flow to 6 liters per minute or less	C	
Applies nasal cannula to the patient	1	
<b>Note: The examiner must advise the candidate to discontinue oxygen therapy.</b>	N/A	N/A
Removes nasal cannula from the patient	1	
Shuts off the regulator	1	
Relieves the pressure within the regulator	1	
Candidate assembles the tank and regulator without leaks	C	
Candidate completed the station within the 4 minute time limit	C	

**Total points possible = 11**

**TOTAL: \_\_\_\_\_**

**Candidate must complete all critical (C) criteria and receive at least 8 points to pass.**