



# Fire Protection Training

Procedures Handbook 4300

PERSONAL PROTECTIVE  
EQUIPMENT

**TOPIC:** How to Don And Remove the MSA Self Contained Breathing Apparatus Sling Coat Method

**TIME FRAME:** 1 Hour

**LEVEL OF INSTRUCTION:**

**BEHAVIORAL OBJECTIVE:**

*Condition:* SCBA in a carry case or compartment, full protective clothing, structure helmet, fire resistive hood pulled down around neck, gloves and a personal alert safety system

*Behavior:* The student will don and remove a MSA SCBA using the sling/coat method under simulated fireline conditions

*Standard:* With a minimum of 70% accuracy, within 60 seconds

**MATERIALS NEEDED:**

- Stop watch
- Performance examination
- One SCBA
- Full structural protective clothing
- Fire resistive hood

**REFERENCES:**

- IFSTA, Essentials of Fire Fighting, 2nd Edition, Chapter 4

**PREPARATION:** One of the most important pieces of equipment placed on an emergency unit for your protection is the SCBA. There is no such thing as safe smoke. Where there is smoke there is always danger. It must be an automatic reflex on your part to don and use SCBA's whenever the possibility of an oxygen deficient or contaminated atmosphere exists.

4305.8



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HOW TO DON AND REMOVE THE  
MSA SELF CONTAINED  
BREATHING APPARATUS SLING  
COAT METHOD

## OPERATIONS

## KEY POINTS

1. Remove facepiece
2. Tilt cylinder and state the pressure indicated on the cylinder pressure gauge
3. Fully open the cylinder valve
4. Grasp SCBA shoulder strap
5. Lift cylinder to shoulder
6. Swing SCBA behind back
7. Tighten shoulder straps

To the Instructor: There are several methods of donning breathing apparatus. This lesson plan is meant for the sling coat method

- 1a. From compartment/case.
- b. From plastic bag.
- c. Making sure the inhalation tube does not contact a dirty surface.
- 2a. With cylinder pressure gauge up and towards wearer.
- 3a. Counter clockwise.
- b. Audible alarm must arm.
- c. Seat locking mechanism if so equipped.
- 4a. Right hand to right shoulder strap or left hand to left shoulder strap.
- b. Cylinder laying on ground.
- c. Cylinder pressure gauge toward feet
- d. Protecting regulator
- 5a. Resting on shoulder.
- b. Arm sliding between shoulder strap and backplate.
- 6a. Inserting free arm through gap between free shoulder strap and backplate.
- 7a. Simultaneous downward pull no twists in the straps.

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8. Connect and tighten chest straps
9. Connect and tighten waist straps
10. Place neck strap of facepiece around neck
11. Place facepiece on face and tighten straps
12. Test facepiece for proper seal
13. Check the exhalation valve
14. Pull fire protective hood into place  
(This is required only for those students that have hoods)
15. Pass inhalation tube through helmet chin strap and put helmet on head
16. Tighten chin strap under neck
17. Raise and button turnout coat collar

- 8a. No twists in the straps.
  - b. Chest strap if so equipped.
- 9a. Make sure there are no twists in the strap.
  - b. Fully take up slack.
- 10a. Under turnout coat collar.
- 11a. Sequence, chin, temple, forehead.
  - b. Pull opposing straps simultaneously.
- 12a. Hold the inhalation tube coupling against the palm of your hand and inhale.
  - b. If air enters the straps on the facepiece must be readjusted.
- 13a. Hold the inhalation tube coupling against the palm of your hand.
  - b. Exhale testing the exhalation valve.
  - c. If air escapes, the straps on the facepiece must be readjusted
- 14a. Over the head and SCBA facepiece
  - b. Covering all straps
  - c. Keeping vision clear
  - d. Covering all neck and facial skin
- 15a. Break away chin strap
- 16a. Placed under chin not to interfere with operation of the exhalation valve or inhalation tube

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18. Connect inhalation tube to the regulator
19. Open mainline valve
20. Call out the reading on the regulator pressure gauge
21. Open by-pass valve
22. Shut by-pass valve off
23. Arm the personal alert safety system
24. Put on gloves.

- 18a. Tightly
- 19a. Fully
  - b. There should be no escape of air
  - c.
- 20a. If more than 100 psi ñ from cylinder reading unit is out of service.
- 21a. Partially.
  - b. Until you have air flow.
- 22a. Completely.
- 23a. Must beep when turned on.

### SCBA Removing Sequence

1. Remove gloves
2. Disarm personal alert safety system
3. Loosen inhalation tube
4. Close cylinder valve
5. Breathe air out of regulator
6. Disconnect inhalation tube from regulator
7. Close mainline valve
8. Remove helmet

- 2a. Off Position.
- 3a. Counter clockwise.
  - b. Do not disconnect.
- 4a. Deactivate locking device.
  - b. Clockwise.
  - c. Completely.
- 5a. Audible alarm should sound.
  - b. Bell will stop ringing when air exhausted.
- 6a. No air escaping when inhalation tube is disconnected.
- 7a. Completely.



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## KEY POINTS

- | OPERATIONS                           | KEY POINTS  |
|--------------------------------------|---|
| 9. Remove protective hoodc           | 9a. Push down around neck.  |
| 10. Remove facepiece                 | 10a. Loosen head harness straps.<br>b. Pull facepiece over the head.<br>c. Remove neck strap. |
| 11. Place facepiece on clean surface | 11a. Back in case.  |
| 12. Disconnect waist strap           | 12a. Waist strap fully extended.  |
| 13. Loosen shoulder straps           | 13a. Lean forward.<br>b. Loosen straps fully.   |
| 14. Disconnect chest strap           | 14a. If so equipped.  |
| 15. Remove SCBA from your back       | 15a. Right arm through right shoulder strap.<br>b. Grasp regulator with right hand.           |



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## ***APPLICATION:***

The student will practice until proficient.

## ***EVALUATION:***

A performance examination.

## ***ASSIGNMENT:***

To be determined by instructor(s).

# Performance Examination

Given a self-contained breathing apparatus in a closed carrying case or compartment, the student will, while wearing turnout clothing and protective fire hood don the apparatus using the sling coat method. This evolution must be completed with a minimum 70% accuracy. Before the evolution begins, the student will be given the opportunity to inspect the apparatus to make sure all valves and straps are in the proper position.

Scoring will be accomplished by circling the points to be deducted for each procedure not done, done incorrectly, or done out of order.

Total points possible **100** - Passing score **70%** .

A score of zero will be entered for this Performance Examination if:

1. The SCBA is dropped by the student during the donning evolution for a reason other than equipment failure.
2. Upon completion of the donning evolution the SCBA is worn in a manner which would jeopardize the safety of the wearer were that person in a toxic atmosphere (i.e., collar of turnout coat breaks the face-facepiece seal, the audible alarm does not arm because the student failed to "breath down" the regulator after the last use, etc.).
3. Student does not don SCBA within 60 seconds.

Upon instructor's command, the student will open the carrying case or compartment. Timed evolution begins.

	<u><b>POINTS</b></u>
1. Remove facepiece from the carrying case or compartment and position the facepiece so that the inhalation tube does not contact a dirty surface.	<u>5</u>
2. Tilt cylinder and state the pressure indicated on the cylinder pressure gauge.	<u>5</u>
3. Fully open the cylinder valve, check locking mechanism. (If so equipped)	<u>5</u>
4. Grasp shoulder strap, lift SCBA to position resting on the shoulder, swing the unit across the back and insert free arm through shoulder strap.	<u>2</u>
5. Tighten shoulder straps, then tighten chest strap if so equipped making sure there are not twists in the strap.	<u>5</u>

# Performance Examination

Continued

	<b><u>POINTS</u></b>
6. Connect and tighten waist strap making sure there are no twists in the strap.	<u>2</u>
7. Place facepiece neck strap behind the neck and under turnout coat collar.	<u>2</u>
8. Place facepiece on face and tighten straps. Sequence must be chin, temple, then forehead.	<u>5</u>
9. Test facepiece for proper seal by holding the inhalation tube coupling against the palm of your hand and inhaling. If air enters the facepiece during inhalation test, then the straps on the facepiece must be readjusted.	<u>*</u>
10. Holding the inhalation tube coupling against the palm of your hand again, you should exhale testing the exhalation valve. If air escapes the facepiece, the straps on the facepiece must be readjusted.	<u>*</u>
11. Pull fire resistive hood into place over the head and SCBA facepiece (if hood is being used.)	<u>6</u>
12. Pass inhalation tube through helmet chin strap. Put helmet on head, tighten chin strap under neck. If upon completion of evolution the student has not put helmet on properly, the score for the examination shall be "0".	<u>2</u>
13. Connect inhalation tube tightly to the regulator and open mainline valve all the way. (There should be no escape of air).	<u>*</u>
14. Call out the reading on the regulator pressure gauge.	<u>5</u>
15. Open by-pass valve until you have air flow then shut by-pass valve off.	<u>4</u>
16. Arm the personal alert safety system.	<u>5</u>
17. Raise and button turnout coat collar.	<u>3</u>

# Performance Examination

Continued

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18. Put on gloves 2

**END OF TIMED EVOLUTION**  
(Graded but not timed)

**ENTER TOTAL TIME:**

## REMOVING SEQUENCE

### POINTS

1. Remove gloves. 1
2. Disarm the personal alert safety system 2
3. Loosen, but do not disconnect inhalation tube. 5
4. Close cylinder valve fully. 4
5. Breath air out of regulator. 4
6. Disconnect inhalation tube from regulator and close mainline valve.  
(There should be no air escaping when inhalation tube is disconnected). 10
7. Remove helmet and fire resistive hood. 2
8. Remove facepiece. Place on clean surface making sure inhalation tube does not touch ground. 3
9. Disconnect waist strap. 2
10. Loosen shoulder strap, disconnect chest strap (if so equipped). 1
11. Pass right arm through right shoulder strap, grasp regulator, then bend your left arm around the cylinder and swing the SCBA off your back. 3
12. Place SCBA and facepiece back in carrying case or compartment with straps extended. 2

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# Performance Examination

Continued

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## POINTS

ENTER TOTAL TIME: \_\_\_\_\_:

POINTS POSSIBLE: \_\_\_\_\_ 100

POINTS DEDUCTED:

FINAL SCORE:

EVALUATOR'S SIGNATURE:

DATE:

COMMENTS:

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