



Fire Protection Training

Procedures Handbook 4300

PERSONAL PROTECTIVE EQUIPMENT

TOPIC: How to Don And Remove the MSA Self Contained Breathing Apparatus, Quick Mount/Seat Mount Method

TIME FRAME: 1 Hour

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: One SCBA in a quick mount or seat mount with facepiece, personal alert safety system, full protective clothing, structure helmet, fire resistive hood pulled down around neck, gloves

Behavior: The student will don and remove a SCBA from a quick mount or seat mount under simulated fire conditions

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

MATERIALS NEEDED:

- Stop watch
- Performance examination sheet
- Personal alert safety system
- One SCBA per student

REFERENCES:

- IFSTA, Essentials of Fire Fighting, 2nd Edition, Chapter 4 Information Sheets, Manufacturer's Literature

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.



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HOW TO DON AND REMOVE THE
MSA SCBA, QUICK MOUNT/SEAT
MOUNT METHOD

OPERATIONS

KEY POINTS

1. Remove facepiece
2. State the pressure indicated on the cylinder pressure gauge
3. Fully open the cylinder valve
4. Insert arms
5. Tighten shoulder straps
6. Connect and tighten chest straps
7. Connect and tighten waist straps
8. Place neck strap of facepiece around neck
9. Place facepiece on face and tighten straps
10. Test facepiece for proper seal

To the Instructor: There are several methods of donning breathing apparatus. This lesson plan is meant for the quick mount or seat mount 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. Check locking mechanism. (If so equipped)
- 4a. Through straps
- b. On respective sides
- c. While seated
- d. While standing
 1. Only if apparatus is parked
- 5a. Simultaneous downward pull no twists in the straps.
- 6a. No twists in the straps.
- b. Chest strap if so equipped.
- 7a. Make sure there are no twists in the strap.
- b. Fully take up slack.
- 8a. Under turnout coat collar.
- 9a. Sequence, chin, temple, forehead.
- b. Pull opposing straps simultaneously.
- 10a. Hold the inhalation tube coupling against the palm of your hand and

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KEY POINTS

11. Check the exhalation valve
12. Pull fire protective hood into place
(This is required only for those students that have hoods)
13. Pass inhalation tube through helmet chin strap and put helmet on head
14. Tighten chin strap under neck
15. Raise and button turnout coat collar
16. Connect inhalation tube to the regulator
17. Open mainline valve
18. Call out the reading on the regulator pressure gauge
19. Call out the reading on the regulator pressure gauge
20. Shut by-pass valve off
21. Arm the personal alert safety system
22. Put on gloves

- against the palm of your hand and inhale.
- b. If air enters the straps on the facepiece must be readjusted.
- 11a. 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.
- 12a. Over the head and SCBA facepiece.
- b. Covering all straps
- c. Keeping vision clear
- d. Covering all neck and facial skin
- 13a. Break away chin strap
- 14a. Placed under chin not to interfere with operation of the exhalation valve or inhalation tube.
- 16a. Tightly.
- 17a. Fully.
- b. There should be no escape of air.
- 18a. If more than 100 psi ñ from cylinder reading unit is out of service.
- 19a. Partially.
- b. Until you have air flow.
- 20a. Completely.
- 21a. Must beep when turned on.



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OPERATIONS

KEY POINTS

SCBA Removing Sequence

- | | |
|--|---|
| 1. Remove gloves | |
| 2. Disarm personal alert safety system | 2a. Off Position. |
| 3. Loosen inhalation tube | 3a. Counter clockwise. b. Do not disconnect. |
| 4. Close cylinder valve | 4a. Deactivate locking device. b. Clockwise. c. Completely. |
| 5. Breathe air out of regulator | 5a. Audible alarm should sound. b. Bell will stop ringing when air exhausted. |
| 6. Disconnect inhalation tube from regulator | 6a. No air escaping when inhalation tube is disconnected. |
| 7. Close mainline valve | 7a. Completely. |
| 8. Remove helmet | |
| 9. Remove protective hood | 9a. Push down around neck. |
| 10. Remove facepiece | 10a. Loosen head harness straps. b. Pull facepiece over the head. c. Remove neck strap. |
| 11. Place facepiece on clean surface | 11a. Back in seat or quick mount. |
| 12. Disconnect waist strap. | 12a. Waist strap fully extended. |
| 13. Loosen shoulder straps. | 13a. Lean forward. 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. b. Grasp regulator with right hand. |

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KEY POINTS

16. Replace SCBA

17. Extend straps

18. Store facepiece

c. Bend your left arm around the cylinder.

d. Swing unit off your back.

e. Protect regulator.

16a. In seat mount/quick mount.

17a. Facepiece.

b. Shoulder.

c. Chest.

d. Waist.

18a. In a plastic bag.

b. In seat mount/quick mount



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HOW TO DON AND REMOVE THE
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APPLICATION:

The student will practice until proficient.

EVALUATION:

A performance examination.

ASSIGNMENT:

To be determined by instructor(s).

Performance Examination

HOW TO DON AND REMOVE THE
MSA SCBA, QUICK MOUNT/SEAT
MOUNT METHOD

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 quick or seat mount 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, timed evolution begins.

| | <u>POINTS</u> |
|---|----------------------|
| 1. Remove facepiece from the seat mount or quick mount 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. While sitting or standing, slide arms through shoulder straps 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> |

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Performance Examination

HOW TO DON AND REMOVE THE
MSA SCBA, QUICK MOUNT/SEAT
MOUNT METHOD

Continued

| | <u>POINTS</u> |
|--|----------------------|
| 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. Raise and button turnout coat collar. | <u>3</u> |
| 14. Connect inhalation tube tightly to the regulator and open mainline valve all the way. (There should be no escape of air). | <u>*</u> |
| 15. Call out the reading on the regulator pressure gauge. | <u>5</u> |
| 16. Open by-pass valve until you have air flow then shut by-pass valve off. | <u>4</u> |
| 17. Arm the personal alert safety system. | <u>5</u> |

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Performance Examination

Continued

HOW TO DON AND REMOVE THE
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POINTS

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 seat mount or quick mount with straps extended.

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Performance Examination

Continued

HOW TO DON AND REMOVE THE
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POINTS

ENTER TOTAL TIME: _____:

POINTS POSSIBLE: _____ 100

POINTS DEDUCTED:

FINAL SCORE:

EVALUATOR'S SIGNATURE:

DATE:

COMMENTS:
