



Fire Protection Training

Procedures Handbook 4300

PERSONAL PROTECTIVE EQUIPMENT

TOPIC: How To Don and Remove The MSA Self Contained Breathing Apparatus Over The Head Method

LEVEL OF INSTRUCTION: II

TIME FRAME: 1 1/2 hours

BEHAVIORAL OBJECTIVE:

Condition: An MSA SCBA in a closed carrying case, a face piece, personal alert safety system device, full structural fire personal protective clothing, with fire protective hood pulled down around the neck inside the turn out coat

Behavior: The student will don and remove an MSA Self Contained Breathing Apparatus, using the over the head method, under simulated fire conditions.

Standard: With a minimum 70% accuracy, within one minute and 15 seconds, according to the job breakdown

MATERIALS NEEDED:

- Stop watch
- Personal alert safety system device
- One SCBA per student
- Full structural fire personal protective clothing per student

REFERENCES:

- IFSTA, Essentials Of Fire Fighting, 2nd Edition, Chapter 4
- IFSTA, Essentials Of Firefighting, 3rd Edition, Chapter 3, Pages 81 Through 82, 93-94

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 to don and use SCBA's whenever the possibility of an oxygen deficient or high heat contaminated atmosphere exists.

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HOW TO DON AND REMOVE THE
MSA SELF CONTAINED BREATHING
APPARATUS OVER THE HEAD
METHOD

OPERATIONS

KEY POINTS

- | | |
|--------------------------------|--|
| 1. Open carrying case | |
| 2. Remove face piece | 2a. From case |
| 3. Tilt cylinder | 3a. With cylinder pressure gauge up and towards wearer |
| 4. State the cylinder pressure | 4a. Indicated on the cylinder pressure gauge |
| 5. Open the cylinder valve | 5a. Fully |
| | 5b. Counter clockwise |
| | 5c. Audible alarm must arm |
| | 5d. Check locking mechanism (If so equipped) |
| 6. Grasp SCBA cylinder | 6a. Hands through shoulder strap loop |
| | 6b. Hands on both sides of cylinder upright position |
| | 6c. Cylinder pressure gauge at top |
| 7. Lift cylinder | 7a. Over head and onto back |
| 8. Connect chest strap | 8a. If so equipped |
| | 8b. Free of twists |
| 9. Grasp shoulder straps | 9a. With the cylinder resting on your back |
| | 9b. Below adjusting buckle assembly |
| 10. Tighten shoulder straps | 10a. Simultaneous downward pull |
| | 10b. Until secure and tight |
| | 10c. Free of twists |
| 11. Connect waist straps | 11a. Connecting buckle |

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12. Place face piece neck strap around neck

13. Place face piece on face

14. Test face piece for proper seal

15. Test exhalation valve

16. Pull fire protective hood into place

17. Pass breathing tube through helmet chin strap

18. Place helmet on head

11b. Fully take up slack

11c. Free of twists

12a. Behind head

12b. Outside turn-out coat collar

13a. Tighten head harness straps

13b. Sequence, chin, temple, forehead

13c. Pull opposing straps simultaneously

13d. Until snug

14a. Breathing tube coupling against the palm of either hand

14b. Inhale

14c. If air enters face piece must be readjusted

14d. Mask must collapse against face

15a. Breathing tube coupling against the palm of either hand

15b. Exhale

15c. If air escapes, face piece must be readjusted

16a. Over head

16b. Covering neck and facial skin

17a. While putting helmet up to head

18a. Squarely

18b. Snugly

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19. Tighten chin strap

19a. Under chin

19b. Not over exhalation valve

19c. Not binding breathing tube

20. Raise and fasten turnout coat collar

21. Connect breathing tube to the regulator

21a. Turning breathing tube coupling

21b. Clockwise direction

21c. Until tight

22. Open mainline valve

22a. Fully

22b. Without escape of air

22c. Counter clockwise direction

23. Check and state regulator pressure

23a. On the regulator pressure gauge

23b. If more than 100 psi ñ from cylinder
reading unit is out of service

24. Open by-pass valve

24a. Counter clockwise direction

24b. Partially and briefly

24c. Until you have air flow

25. Close by-pass valve

25a. Clockwise direction

25b. Completely

26. "Arm" the personal alert safety system
device

26a. To "arm" position

26b. Must beep when turned on

27. Put on gloves

27a. Wristlets under coat sleeve

27b. Skin covered

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KEY POINTS

SCBA REMOVING SEQUENCE

- | | |
|---|---|
| 1. Remove gloves | |
| 2. "Disarm" personal alert safety system device | 2a. To "Off" Position |
| 3. Loosen breathing tube coupling | 3a. At the regulator
b. Counter clockwise direction
c. Do not disconnect |
| 4. Close cylinder valve | 4a. Deactivate locking device (if so equipped)
b. Clockwise direction
c. Completely |
| 5. Breathe air out of regulator | 5a. Until audible alarm stops ringing |
| 6. Disconnect breathing tube | 6a. At the regulator
b. Without escape of air |
| 7. Close mainline valve | 7a. Clockwise direction
b. Completely |
| 8. Remove helmet | 8a. Loosening chin strap fully
b. Threading down length of breathing tube |
| 9. Remove protective hood | 9a. Pushing down around neck
b. Behind head |
| 10. Remove face piece | 10a. Loosening head harness straps
b. Pulling face piece over the head
c. Removing neck strap from neck |

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KEY POINTS

- | OPERATIONS | KEY POINTS |
|---------------------------------|---|
| 11. Place face piece | 11a. On clean surface |
| 12. Disconnect waist strap | 12a. Releasing buckle
b. Fully extending strap |
| 13. Loosen shoulder straps | 13a. While leaning forward
b. Fully extending straps |
| 14. Disconnect chest strap | 14a. If so equipped
b. Placing on velcro retainer |
| 15. Remove SCBA from back | 15a. Right arm through right shoulder strap
b. Grasping regulator with right hand
c. Bending left arm around the cylinder
d. Swinging unit off the back
e. Protecting regulator |
| 16. Place SCBA in carrying case | 16a. Cylinder on bottom
b. Harness on top |
| 17. Extend all straps | 17a. Face piece head harness
b. Shoulder
c. Waist |
| 18. Store face piece | 18a. In a protective bag
b. In carrying case |
| 19. Close carrying case | 19a. Completely |

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APPLICATION:

The student will practice while supervised and coached by the instructor.

EVALUATION:

A manipulative performance test.

ASSIGNMENT:

To be determined by the instructor(s).