



Pennsylvania State Fire Academy

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Minimum Standard for Accreditation (MSA)

July 1992

Revised January 1998

Course Title: Respiratory Protection I (REPR)

Length of Course: 16 Hours

Lecture/Lab Breakdown: 6/10

Prerequisites: IST and the ability to don, use, and work in personal protective equipment (PPE) appropriate to the hazard(s) to be encountered.

Referenced Texts: IFSTA Self-Contained Breathing Apparatus, 1st edition; IFSTA Essentials of Fire Fighting, 3rd edition; NFPA 1001 Fire Fighter Professional Qualifications, 1997 edition.

Course Goal: Students attending this program will become familiar with basic techniques for using S.C.B.A.; and will demonstrate safe methods of donning, doffing, using, cleaning and servicing S.C.B.A.

Description of Course: This program gives the student a chance to become proficient in the use of S.C.B.A., allowing ample time to practice various skills and perform several exercises with their S.C.B.A. This course is particularly useful as a review for experienced fire service personnel or as an introductory course for persons (such as EMS) who use SCBA in a hazardous atmosphere other than fire conditions.

Description of Methodology to be used: (Brief) Combination of lecture, demonstration, audiovisual presentation, and practical exercises.

Student Equipment/Supply Needs: Pen/Pencil, Notebook, Appropriate PPE, and S.C.B.A. Each student should have a S.C.B.A. if possible.

Equipment/Audiovisual/Supply requirements: Classroom, chalkboard, screen, audiovisuals per instructor discretion, air refill capabilities for low pressure and high pressure S.C.B.A. Locations are needed to permit students to do stressful exercises while wearing S.C.B.A.; to don and doff S.C.B.A. without interfering with each other; an area that can be made dark preferably with ability to fill with smoke and set up obstructions.

COURSE OUTLINE

<u>Time</u>	<u>Content</u>	<u>Notes</u>
:30 Session 1	Registration, Introduction, Course Description	
1:00 Session 2	Anatomy and Physiology	
1:00 Session 3	Types of Respiratory Protection Equipment	continued

MINIMUM STANDARDS FOR ACCREDITATION

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COURSE OUTLINE

<u>Time</u>		<u>Content</u>	<u>Notes</u>
1:30	Session 4	Components of S.C.B.A.	
2:00	Session 5	Operating and Servicing S.C.B.A.	
1:00	Session 6	Donning Drill	
1:00	Session 7	Physical Agility Exercise with S.C.B.A.	
3:00	Session 8	Working in Smoke/Low Visibility	
1:30	Session 9	Search Procedures	
2:30	Session 10	Search Exercise in Smoke/Low Visibility	
1:00	Session 11	Cleanup and Conclusion	

The order the sessions are presented may vary due to class location or scheduling constraints.

Competency Evaluation Mechanism (Brief description-attach copy): Instructors will evaluate students during various exercises.

Course Objectives (specific): The student will:

1. be able to identify at least four hazardous respiratory environments encountered in emergency service work.
2. be able to identify the physical requirements of the wearer, limitations of the self-contained breathing apparatus, and the safety features of all types of S.C.B.A.
3. demonstrate donning self-contained breathing apparatus while wearing Personal Protective Equipment (PPE) appropriate to the hazard(s).
4. demonstrate that the self-contained breathing apparatus is in a safe condition for immediate use.
5. be able to identify the procedure for cleaning and sanitizing self-contained breathing apparatus for future use.
6. demonstrate the procedure for daily inspection and maintenance of self-contained breathing apparatus.
7. demonstrate the correct procedure for recharging his/her S.C.B.A.
8. be able to identify and define the operational components of his/her S.C.B.A.
9. demonstrate the use of his/her S.C.B.A. in a dense smoke or vision obscured hazardous environment
10. be familiar with procedures for doing a search in an environment and demonstrate the ability to search for and remove victims from said environment.
11. recognize physical constraints of S.C.B.A. while participating in various rigorous exercises; and demonstrate the ability to perform various emergency service operations while wearing S.C.B.A.

Questions/Comments: Rita Wessel, Curriculum Specialist: Extension 106
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