

**ALLAN HANCOCK COLLEGE  
COURSE OUTLINE**

**DEPARTMENT:** FIRE, SAFETY & EMS  
**PREFIX & NO.:** ENVT 455  
**CATALOG TITLE:** Institute in Environmental Technology  
**SCHEDULE TITLE:** Respirator QNFT/Train-the-Trainer  
**UNITS:** 1  
**WEEKLY LECTURE HOURS:** 16  
**WEEKLY LAB HOURS:**  
**TOTAL NUMBER OF WEEKS:** (if other than 16) 1 week  
**GRADING OPTION:** Credit/No Credit Option

**CATALOG DESCRIPTION**

Training courses focusing on specialized environment technology topics. Topics will be identified on a periodic basis in conjunction with employment or program/discipline needs.

**SCHEDULE DESCRIPTION**

Provides Occupational Safety Officers/Respiratory Protection Program Administrators with regulatory updates and skills necessary to conduct respirator quantitative fit testing (QNFT). Not open to students who are enrolled in or who have completed FT 359 Respirator QNFT/Train-the Trainer.

**COURSE GOALS To encourage and enable students to:**

1. become familiar with additions/changes to the Code of Federal regulations, state requirements, county requirements, and/or local requirements concerning OSHA standards and environmental technology issues.
2. become skilled in applying additions/changes to the Code of Federal regulations, state requirements, county requirements, and/or local requirements concerning OSHA standards and environmental technology issues.
3. understand and communicate the Health and Safety aspects of OSHA requirements and environmental issues.

**INSTRUCTIONAL OBJECTIVES At the end of the course, the student will demonstrate the ability to:**

1. identify and implement OSHA requirements.
2. evaluate, identify and analyze different environmental issues.
3. discuss the long and short-term consequences of each OSHA requirements and environmental issue.
4. where appropriate, perform course-taught performance skills (i.e. confined space entry, SCBA proficiency, identification of hazardous waste and others).

**COURSE OUTLINE**

	<b><u>HOURS</u></b>
1. Occupational respiratory protection regulations (State and Fed.)	2.5
2. Theory and application of condensation nuclei counter (CNC)	1.5
3. Respiratory protection training and QNFT requirements	4
4. Procedures and techniques for operating the CNC workstations and conducting QNFTs	8

### **APPROPRIATE READINGS (other than textbook)**

8 CCR 5144, 5147

29 CFR 1910.134, 139

29 CFR 1926.103

42 CFR 84

### **ASSIGNMENTS**

1. Assess and update written respiratory protection.
2. Establish QNFT schedule and records management program.
3. Schedule QNFT for respiratory protection program participants.

### **EVALUATION**

1. One multiple choice and short answer quiz.

2. QNFT scenarios.

Sample: Describe the difference between Fit Factor (FF) and Protection Factor (PF). Be sure to include an explanation of the various forms of Protection Factors.

### **TEXTS AND SUPPLIES**

Adopted Text: None

Other Materials: Handouts