

APRT 154B: HAZARDOUS MATERIAL RECOGNITION FOR THE TEST & AIR BALANCE INDUSTRY (TAB-5)

Foothill College Course Outline of Record

Heading	Value
Units:	4.5
Hours:	30 lecture, 78 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Testing & Air Balance Apprenticeship Program.
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Student Learning Outcomes

- A successful student will be able to prepare electrical and fire safety checklist.
- A successful student will be able to explain confined space training requirements.

Description

Develop skills and knowledge to recognize hazardous materials in the HVAC test and air balance industry. Use personal protective equipment and tools properly as they relate to hazardous materials. Review current laws governing hazardous material recognition and response.

Course Objectives

The student will be able to:

- Discuss the legislation that enacted the Hazwoper Law.
- Recognize and use the tools, equipment and materials required when working with hazardous materials.
- Compare and discuss electrical and fire safety.
- Explain confined space training requirements.

Course Content

- Discuss the legislation that enacted the Hazwoper Law
 - Identify OSHA regulations regarding Hazwoper requirements
 - Research to identify local agencies that may apply, if any
- Recognize and use the tools, equipment and materials required when working with hazardous materials
 - Chemical recognition
 - Use of personal protective equipment
- Compare and discuss electrical and fire safety
 - Electrical safety procedures
 - Fire safety procedures

- Explain confined space training requirements
 - Use of protective and ventilation equipment
 - Site inspection
 - Practices for maintenance of acceptable conditions

Lab Content

- Observe demonstration of safety hazards encountered in HVAC test and balance work, including "clean room," chemical and bio hazard environments
- Practice with Personal Protective Equipment and other methods to work around such hazards

Special Facilities and/or Equipment

- Laboratory equipped with air conditioning duct and hydronic systems and testing equipment
- Personal protective equipment for hazardous materials

Method(s) of Evaluation

- Results of written quizzes and tests
- Shop participation
- Comprehensive written final examination
- Maintenance of a workbook of student's daily work activities

Method(s) of Instruction

- Lecture
- Discussion
- Cooperative learning exercises
- Oral presentations
- Laboratory
- Demonstration

Representative Text(s) and Other Materials

Gluck, C. Hazwoper Training Manual. Watsonville, CA: Environment and Education Inc., 2000.

NOTE: This is the standard Sheet Metal textbook/workbook used for this course. Although it may not be within 5 years of the required published date, it is the most current book used when teaching this course.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

- An example of a reading assignment is to read from the text regarding chemical recognition.
- An example of a written assignment is to research CFR 1910.1200 and write a definition of "compressed gas" as defined in these OSHA requirements for hazard communication.

Discipline(s)

Air Conditioning, Refrigeration, Heating