



COURSE SYLLABUS

**DIVISION:** Workforce Services

**Revised:** January 2015

**CURRICULUM IN WHICH COURSE IS TAUGHT:** Non- Curricula

**COURSE NUMBER AND TITLE:** SAF 246, Hazardous Chemicals, Materials, and Waste in the Workplace

**CREDIT HOURS:** 3

**HOURS/WEEK LECTURE:** 3

**HOURS/WEEK LAB:** 0

**LECTURE/LAB COMBINATION:** 3

**I. CATALOG DESCRIPTION:** Introduces the rules and regulations governing use, exposure to, and disposal of hazardous chemicals, materials and waste by-products. Discusses OSHA "Right to Know Laws," EPA and RCRA regulations. Provides the techniques to interpret and understand the code of Federal Regulations. Emphasis on management mandates, strategies, and options to comply with these regulations.

**II. RELATIONSHIP OF THE COURSE TO CURRICULUM OBJECTIVES IN WHICH IT IS TAUGHT:** This course is used to introduce rules/regulations for industry.

**III. REQUIRED BACKGROUND:** None

**IV. COURSE CONTENT**

- Perspective and Overview
- Hazardous Materials Introduction and Overview
- Overview of Environmental Laws, Agencies and Programs
- Introduction to Health Effects/Workplace Safety
- Environmental Compartments
- Waste Minimization: definitions, legislation, principles
- Solid Waste Sites: construction, monitoring, sampling
- First Responder Awareness: principles, application
- Risk Management: principles of risk management

**V. Learner Outcomes**

**VI. Evaluation**

Perspective and Overview	Class participation, homework, quizzes, and final exam
Hazardous Materials Introduction and Overview	Class participation, homework, quizzes, and final exam

Overview of Environmental Laws, Agencies and Programs	
Introduction to Health Effects/Workplace Safety	
Environmental Compartments	
Waste Minimization: definitions, legislation, principles	
Solid Waste Sites: construction, monitoring, sampling	
First Responder Awareness: principles, application	

**VII. The course supports the following general education goals/objectives:**

DCC Educational Objectives

- Communication
- Critical Thinking
- Information Literacy
- Quantitative Reasoning
- Cultural and Social Understanding
- Wellness