

Course Outline
FPTC 121
Hazardous Materials
4 credit hours

The Community Colleges of Baltimore County
Catonsville

Description

Hazardous Materials

Discusses the physical properties, recognition, handling, storage, transportation issues involved with common hazardous materials; examines common emergency response and mitigation strategies for various hazardous scenarios and introduces chemistry of dangerous substances and processes.

Overall Course Objectives (learning objectives)

Upon completion of the course, the student will be able to:

1. Understand the basic chemistry and properties of hazardous materials.
2. Complete a basic hazard survey.
3. Understand the industrial settings and uses for hazardous substances.
4. Describe typical transportation and storage applications.
5. Identify various systems for labeling and identifying hazardous substances.

Major Topics

1. Basic chemistry.
2. Hazardous material identification.
3. Storage and transportation laws and regulations.
4. Placards and labels.
5. Emergency response guidelines.
6. Site evaluations of hazardous processes.

Course Requirements

Students shall demonstrate learning through:

1. Participation in class discussions.
2. Successful completion of quizzes and research projects.
3. Visits to hazardous materials facilities.