

## **Bossier Parish Community College Master Syllabus**

**Course Prefix and Number:** ISAF 111

**Credits:** 2-2-0

**Course Title:** Safety, Health & Environment for Process Technology

**Course Prerequisite:** MATH 099

**Textbook(s):** NONE

**Course Description:** This course is an introduction to the various aspects of safety, health and environment related to process technology. The course includes an overview of hazards in a plant environment, hazard controls, elements of process safety management, emergency response, and inherent risks of process industries.

### **Learning Outcomes:**

At the end of the course, the student will:

- A. recognize various types of Safety, Health and Environmental hazards in a plant environment and discuss the consequences of these hazards;
- B. demonstrate knowledge of the various types of hazard controls (administrative, engineering, personal protective equipment) and discuss methods of applying these controls;
- C. identify elements of Process Safety Management and discuss how they work together for the safety of plant personnel;
- D. discuss how to respond to various types of emergencies (fires, spills, vapor releases, natural disasters, etc.);
- E. discuss the vulnerabilities, risks and threats associated with the process industries (terroristic, cyber security, workplace violence, suspicious activities, etc.).

To achieve the learning outcomes, the student will:

(The letter designations at the end of each statement refer to the learning outcome(s).)

- 1. Develop basic understanding of the various types of Safety, Health and Environmental hazards in a plant environment and discuss the consequences of these hazards; (A)
- 2. Develop basic understanding of the various types of hazard controls (administrative, engineering, personal protective equipment) and discuss methods of applying these controls; (B)
- 3. Describe elements of Process Safety Management and discuss how they work together for the safety of plant personnel; (C)
- 4. Define how to respond to various types of emergencies (fires, spills, vapor releases, natural disasters, etc.); (D)
- 5. Develop basic understanding of the vulnerabilities, risks and threats associated with the process industries (terroristic, cyber security, workplace violence, suspicious activities, etc. (F)

**Course Requirements:** Scientific Calculator

**Course Grading Scale:**

90 – 100 = A

80 – 89 = B

70 – 79 = C

60 – 69 = D

0 – 59 = F

**Attendance Policy:** The college attendance policy is available at  
<http://www.bpcc.edu/catalog/current/academicpolicies.html>

**Course Fees:** (if applicable)

**Nondiscrimination Statement:** Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

**COORDINATOR FOR SECTION 504 AND ADA**

Angie Cao, Student and Disability Services Specialist

Disability Services, F-254

6220 East Texas Street

Bossier City, LA 71111

Phone: 318-678-6511

Email: [acao@bpcc.edu](mailto:acao@bpcc.edu)

Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.

**Equity/Compliance Coordinator**

Teri Bashara, Director of Human Resources

Human Resources Office, A-105

6220 East Texas Street

Bossier City, LA 71111

Phone: 318-678-6056

Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.