

Bossier Parish Community College
Master Syllabus

Course Prefix and Number: ISAF 109

Credit Hours: 2-2-0

Course Title: Basic Field Safety Orientation

Course Co-requisites and Prerequisites: None

Textbook(s): None. A Student Course Packet is provided by the instructor, and the cost of the packet is included in the course fee.

Course Description: The basics of the requirements, regulations, processes, and practices of basic safety currently in place in the oil and gas industry; applicable regulations; hazard identification and assessments; specialized work procedures; typical field equipment and their inspections; accident and incident reporting, recording, and investigation requirements; contractor safety evaluations and approval criteria. The Safeland certification will be available upon completion of the course and certification test.

Learning Outcomes:

At the end of this course the student will:

- A. discuss the laws and regulations applicable to the oil and gas industry and know how to access those regulations and research specific topics of interest;
- B. understand the basics of the safety requirements of a modern drilling rig and other types of locations and field equipment in the industry;
- C. discuss how to survey job sites and identify different types of hazards to which employees may be exposed, and the requirements that are applicable to typical types of exposures in the industry;
- D. be familiar with some of the specialty tools and instrumentation used in the evaluation of exposure potentials;
- E. relate observations made on a drilling location and other types of locations to injury and accident potentials, discuss safety attitudes and what the intentions of behavior modification processes are and how they are achieved, and describe techniques for exposure control and remediation;
- F. discuss different types of specialized work procedures commonly used on job sites in the oil and gas industry and how they achieve exposure control; and
- G. be familiar with hazard recognition, identification, and communication requirements.

To achieve the learning outcomes, the student will or will be able to:

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

- 1. develop an understanding of the laws, regulations, recommendations, and practices that are applicable to the oil and gas industry and where they are located and can be accessed; (A, B)
- 2. discuss the components on a typical drilling site and other types of locations in the industry and the safety requirements of each; (B)

3. learn what elements comprise and constitute an inspection of a drilling location and familiarize students with the OSHA drilling rig inspection requirements; (B)
4. discuss the various types of hazards common to oil and gas industry work sites and how those hazards could lead to different types of incidents, injuries, illnesses, and other negative consequences; (C)
5. develop an understanding of the various types of exposure potentials and how those potentials can be evaluated and controlled or mitigated; (C)
6. learn of the different types of instrumentation and other tools that are used to evaluate and quantify exposure potentials and identify areas and atmospheres that could lead to accidents and injuries; (D)
7. learn the concepts behind behavior-based safety, how the process is implemented, and how it can be used to improve workplace safety as well and have an effect on employees' behaviors and the safety culture of an organization; (E)
8. develop an understanding of the types of mechanisms that are used in the industry to eliminate or control hazard that will lead to accident and injury prevention; (E)
9. learn about several types of specialized work procedures that are regularly practiced currently in the industry, what they are intended to accomplish, and the roles and responsibilities of individual employees to ensure their effectiveness; (F) and
10. Discuss the hazard communications standard, what the major elements of that regulation are, and how they are used in incident and injury prevention programs. (G)

Course Requirements: Textbook, OSHA regulations, 29 CFR 1904, 1910, and 1926 provided by instructor.

Course Grading Scale:

90% to 100%	= A
80% to < 90%	= B
70% to < 80%	= C
60% to < 70%	= D
< 60%	= F

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

Course Fees: This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, software licenses, certification exams, and/or clinical fees.

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.

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