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ILLINOIS VALLEY COMMUNITY COLLEGE

COURSE OUTLINE

DIVISION: Workforce Development

COURSE: IMT 1208; Industrial Safety

Date: Spring 2	2014	
Credit Hours:	1	
Prerequisite(s):	None	
Delivery Method:	∠ Lecture	1 Contact Hours (1 contact = 1 credit hour)
	☐ Seminar	0 Contact Hours (1 contact = 1 credit hour)
	⊠ Lab	0 Contact Hours (2 contact = 1 credit hour)
	☐ Clinical	0 Contact Hours (3 contact = 1 credit hour)
	⊠ Online	
	Blended	
Offered: 🔀 Fall	⊠ Spring	☐ Summer

CATALOG DESCRIPTION:

This course provides a basic overview of the concepts of industrial safety, the origins of the safety movement, the elements of a good safety program and an understanding of those elements.

IAI Equivalent - Only for Transfer Courses-go to http://www.itransfer.org.

GENERAL EDUCATION GOALS ADDRESSED

[See the last page of this form for more information.]

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

[Choose those goals that apply to this course.]

∐ То	apply analytical and problem solving skills to personal, social and
	professional issues and situations.
□ То	communicate orally and in writing, socially and interpersonally.
□ То	develop an awareness of the contributions made to civilization by
	the diverse cultures of the world.
□ То	understand and use contemporary technology effectively and to
	understand its impact on the individual and society.
∐ То	work and study effectively both individually and in collaboration with others.
⊠ To	understand what it means to act ethically and responsibly as an
᠘ .0	individual in one's career and as a member of society.
То	develop and maintain a healthy lifestyle physically, mentally, and
	spiritually.
⊠ To	appreciate the ongoing values of learning, self-improvement, and career planning.

EXPECTED LEARNING OUTCOMES AND RELATED COMPETENCIES:

[Outcomes related to course specific goals.]

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

The student will:

- 1.0 Understand both the employer's and employee's rights and obligations for providing and maintaining a safe work environment.
- 2.0 Understand the elements of a good workplace safety program and the need for such programs.
- 3.0 Understand the need for personal protective equipment and be able to identify the appropriate protective equipment for different safety situations.
- 4.0 Understand and identify different types of hazards associated with the workplace and the correct approach for dealing with each type of hazard.
- 5.0 Develop an understanding of electrical and fire safety programs.
- 6.0 Have a working knowledge of the most common health hazards, the regulations governing those hazards, and the methods used to control those hazards within the workplace.
- 7.0 Understand the benefits of good safe work practices within the workplace.

COURSE TOPICS AND CONTENT REQUIREMENTS:

- 1. Introduction to Safety
 - A. Responsibilities
 - B. Hazard recognition
 - C. Accident investigation
- 2. Safety Laws
 - A. OSHA, The act and related laws
 - B. NIOSH and EPA
- 3. Contractor Safety
 - A. Safety regulations
 - B. Elements of a contractor safety program
- 4. Other Safety and Health Regulations
 - A. Construction, shipbuilding, DOT, etc.
- 5. Personal Protective Equipment
 - A. Introduction
 - B. Types of PPE
 - C. Engineering controls
- 6. Chemical Safety
 - A. Physical hazards
 - B. Health Hazards
 - C. Exposure routes
- 7. Tool Safety
 - A. Hand tools
 - B. Power tools
- 8. Safety Materials Handling
 - A. Causes of injuries
 - B. Material handling hazards
 - C. Material handling tools
- 9. Machine Safety
 - A. Machine guards
 - B. Other safety devices
- 10. Electrical Safety
 - A. Electricity
 - B. Electrical injuries
- 11. Electrical Protection
 - A. Grounding
 - B. Fuses and breakers
 - C. Hazards
- 12. Fire Protection
 - A. Chemistry of fire
 - B. The fire experience
 - C. Basic fire protection
- 13. Health Protection
 - A. Health hazards
 - B. The work environment
- 14. Safe Work Practices
 - A. Housekeeping
 - B. Walking and work surfaces
 - C. Tools
 - D. Other hazards

INSTRUCTIONAL METHODS:

Telecourse or Lecture

INSTRUCTIONAL MATERIALS:

STUDENT REQUIREMENTS AND METHODS OF EVALUATION:

Examinations

TEXT:

Safety and Health, Bolender, Schoolcraft Publishing

OTHER REFERENCES

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Course Competency/Assessment Methods Matrix

IMT 1208; Industrial Safety	Assessment Options																															
For each competency/outcome place an "X" below the method of assessment to be used.	Assessment of Student Learning	Article Review	Case Studies	Group Projects	Lab Work	Oral Presentations	Pre-Post Tests	Quizzes	Written Exams	Artifact Self Reflection of Growth	Capstone Projects	Comprehensive Written Exit Exam	Course Embedded Questions	Multi-Media Projects	Observation	Writing Samples	Portfolio Evaluation	Real World Projects	Reflective Journals	Applied Application (skills) Test	Oral Exit Interviews	Accreditation Reviews/Reports	Advisory Council Feedback	Employer Surveys	Graduate Surveys	Internship/Practicum /Site Supervisor Evaluation	Licensing Exam	In Class Feedback	Simulation	Interview	Written Report	Assignment
Assessment Measures – Are direct or indirect as indicated. List competencies/outcomes below.	Direct/ Indirect	۵	Ω	D	D	Ω	Ω	D	Ω	٥	Ω	۵	٥	D	D	D	D	۵	۵	٥		_		_	D	۵						
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2.0 Understand the elements of a good workplace safety program and the need for such programs.									×																							
3.0 Understand the need for personal protective equipment and be able to identify the appropriate protective equipment for different safety situations.									×																							
4.0 Understand and identify different types of hazards associated with the workplace and the correct approach for dealing with each type of hazard.									×																							
5.0 Develop an understanding of electrical and fire safety programs.									×																							

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