COURSE OUTLINE

DIVISION: Workforce Development

COURSE: IMT 1208; Industrial Safety

Date: Spring 2014

Credit Hours: 1

Prerequisite(s): None

Delivery Method:
- Lecture: 1 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: 0 Contact Hours
- Blended: Offered: ☒ Fall ☒ Spring ☐ Summer

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

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.
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.]

☐ To apply analytical and problem solving skills to personal, social and professional issues and situations.
☐ To communicate orally and in writing, socially and interpersonally.
☐ To develop an awareness of the contributions made to civilization by the diverse cultures of the world.
☐ To understand and use contemporary technology effectively and to understand its impact on the individual and society.
☐ To work and study effectively both individually and in collaboration with others.
☒ To understand what it means to act ethically and responsibly as an individual in one’s career and as a member of society.
☐ To 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

   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

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<table>
<thead>
<tr>
<th>Assessment Measures – Are direct or indirect as indicated. List competencies/outcomes below.</th>
<th>Assessment of Student Learning</th>
<th>Assessment Options</th>
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</thead>
<tbody>
<tr>
<td>Direct/Indirect</td>
<td>Assessment of Student Learning</td>
<td>Assessment Options</td>
</tr>
<tr>
<td>1.0 Understand both the employer’s and employee’s rights and obligations for providing and maintaining a safe work environment.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>2.0 Understand the elements of a good workplace safety program and the need for such programs.</td>
<td>X</td>
<td></td>
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<tr>
<td>3.0 Understand the need for personal protective equipment and be able to identify the appropriate protective equipment for different safety situations.</td>
<td>X</td>
<td></td>
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<td>4.0 Understand and identify different types of hazards associated with the workplace and the correct approach for dealing with each type of hazard.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>5.0 Develop an understanding of electrical and fire safety programs.</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>
### IMT 1208; Industrial Safety

For each competency/outcome place an “X” below the method of assessment to be used.

| Assessment Measures – Are direct or indirect as indicated. List competencies/outcomes below. |
| Direct/Indirect | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 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. | X |
| 7.0 Understand the benefits of good safe work practices within the workplace. | X |