**BARTON COMMUNITY COLLEGE**

##### COURSE SYLLABUS

## GENERAL COURSE INFORMATION

Course Number: MSCT 1101

Course Title: Occupational Safety and Health  
Credit Hours: 1  
Prerequisite: None  
Division and Discipline: Workforce Training and Community Education/Manufacturing Skills

Course Description: This course provides students with an understanding of current safety regulations, established safety practices, hazard recognition and the impact of behavior and environment on injury prevention.

###### INSTRUCTOR INFORMATION

###### COLLEGE POLICIES

Students and faculty of Barton Community College constitute a special community engaged in the process of education. The College assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

Plagiarism on any academic endeavors at Barton Community College will not be tolerated. The student is responsible for learning the rules of, and avoiding instances of, intentional or unintentional plagiarism. Information about academic integrity is located in the Student Handbook.

The college reserves the right to suspend a student for conduct that is determined to be detrimental to the College educational endeavors as outlined in the College Catalog, Student Handbook, and College Policy & Procedure Manual. (Most up-to-date documents are available on the College webpage.)

Any student seeking an accommodation under the provisions of the Americans with Disability Act (ADA) is to notify Student Support Services via email at [disabilityservices@bartonccc.edu](mailto:disabilityservices@bartonccc.edu).

## COURSE AS VIEWED IN THE TOTAL CURRICULUM

This course is one course that students complete in the pursuit of attaining the Manufacturing Skills Certification (MSC). This certificate curriculum was developed by the Kansas Institute for Technical Excellence (KITE) colleges in Kansas in collaboration with business and industry representatives within the manufacturing sector from the Central/South Central Kansas region.

# This course is not intended for transfer.

## ASSESSMENT OF STUDENT LEARNING

Barton Community College assesses student learning at several levels: institutional, program, degree and classroom. The goal of these assessment activities is to improve student learning. As a student in this course, you will participate in various assessment activities. Results of these activities will be used to improve the content and delivery of Barton’s instructional program.

Upon completion of the course, the student will have a basic understanding of the skills which are essential to work safely in an industrial environment. The course uses practical application based material that is based on OSHA and NIOSH standards to better understand how to recognize health and physical hazards to develop a safer working environment.

Course Outcomes, Competencies, and Supplemental Competencies:

1. Discuss the vocabulary of occupational health and safety.
2. Define occupational injury and illness.
3. Recognize hazards and risks.
4. Differentiate between accidents and incidents.
5. Describe the regulatory structure governing occupational safety and health.
6. Explain OSHA.
7. Explain NIOSH.
8. Explain injury classifications.
9. Explain the consequences of workplace injuries, as well as recent injury statistics.
10. Discuss the cost of injuries and fatalities.
11. Analyze national injury and illness statistics.
12. Compare national industries and occupations with the highest rates of illness and injury.
13. Examine the nature of disabling conditions.
14. Analyze the perception of risk and the cause of injuries.
15. Describe the impact of personal and environmental aspects on injury prevention.
16. Outline responsibilities of safety.
17. Interpret the injury (accident) pyramid.
18. Compare personal protection equipment.
19. List hazard controls.
20. Determine proper electrical, fire and health protection.
21. Describe and follow established safety practices with regard to common occupational safety and health hazards.
22. Explain how safety programs function.
23. Discuss chemical safety relative to:
24. Hazard communication standard.
25. MSDS.
26. Types of hazard.
27. Review tool safety.
28. Define safe material handling.
29. Define machine safety.
30. Distinguish between lockout and tagout.
31. Define electrical safety.
32. Discuss safe work practices.
33. Recognize hazards and identify how to reduce the risk of injury with regard to hazards.
34. Outline hazard recognition.
35. Analyze job safety.
36. Recognize electrical, chemical, mechanical, environmental and health hazards.

## INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS

## TEXTBOOKS AND OTHER REQUIRED MATERIALS

### REFERENCES

### METHODS OF INSTRUCTION AND EVALUATION

## ATTENDANCE REQUIREMENTS

## COURSE OUTLINE