**SOUTH SUBURBAN COLLEGE**

**SOUTH HOLLAND, IL 60473**

**COURSE OUTLINE GUIDE**

**ICCB Course Name and Number** MFG 101 **Semester Hours:** 3

**IAI Number:**

**Curriculum:** MFG.BASIC

**Required:** Yes **Elective:** **Replacement for:**

**Contact:** Becky Admave 708-210-5763 badmave@ssc.edu **Date Submitted:** March 2014

**Course Title: SSC Catalog/ICCB: (36 characters)** Intro to Manufacturing and Safety

**Contact Hrs: Lecture -**  2 **Lab -**  2 **Intern -**  0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Description of course to appear in catalog: (Include prerequisites, lab fee, etc.)**

Provides the student with an introduction to the manufacturing world and provides specific instruction to facilitate safe work practices in industrial environments. Introduces manufacturing specializations such as mechatronics, precision machining and welding. Covers fire safety, pressurized gases, electrical hazards, and safe machine usage. Students will also become acquainted with OSHA policy. Students will have the opportunity to earn the Safety Certification through Manufacturing Skill Standards Council (MSSC).

**Description for Schedule: (two sentence maximum)**

* **Pre-requisites:** None
* **Lab Fee:** $175, includes certification testing
* **Textbook(s) and other required materials:** (include author, title, publisher, etc.)

Manufacturing Skill Standards Council, *High-Performance Manufacturing*, Woodland Hills, CA, 2006 ISBN 0-07-861487-2

Goetsch, David L. *Basics of Occupational Safety.* Prentice Hall, 2010
ISBN:978-0-13-502613-7

**General objectives of the course:** (8-10 measurable objectives preferred)

At the conclusion of the course, the student will be able to:

1. Demonstrate an understanding of the careers available in manufacturing.
2. Demonstrate an understanding of what is necessary to provide a safe manufacturing workplace.
3. Use appropriate protective clothing for the job.
4. Perform safety and environmental inspections.
5. Identify unsafe conditions and take corrective action.
6. Operate hand and power tools in a safe manner.
7. Identify industrial gases and demonstrate an understanding of safe handling practices, including industrial gases and chemicals.
8. Identify agencies that regulate safety in the workplace.

**Other Aims of this Course**:

**Topical Outline: (may be on a weekly basis)**

1. Careers in Manufacturing
2. Trends in Manufacturing
3. Inside the Manufacturing Workplace
4. Introduction to Safety
5. Creating a Safe Workplace
6. Practicing Safety
7. Electrical Safety
8. Hand Tools
9. Power Tools
10. Machine Shop Safety
11. Industrial Gases and Welding
12. Industrial Chemicals
13. OSHA and EPA Rules

**Methods of presentation:** (Include out-of-class requirements such as field trips, etc.)

Lecture, Demonstration, Problem solving, small groups and discussion

**Methods of evaluation:**

Tests, quizzes, and student presentations

**Course Requirements**:

1. **Materials**:

2. **Space Needs**: Classroom

3. **Library Holding Needs**: Textbooks

4. **Instructors:** Does certification criteria require that a full-time faculty member be employed for the program to be accredited? NO.

 If yes, would the College need to hire a full-time faculty member for this purpose or is there one already in place.

5. **Impact on Enrollment:** Estimate the impact this course will have on enrollment in other courses in the same division or group requirement. Enrollments should complement each other.

**6. Statement of Possible Conflict or Overlap:** Indicate statements of agreement or disagreement of other faculty members or division directors concerning subject matter content of course and its relationship with existing course.

**7. Are you considering this course for the General Education Requirements?**

**Yes []** **No [X]**

 **If yes, give rationale why and in what grouping.**

**8. Class Capacity:**What is the expected class capacity for this course? 24

If the capacity is different than standard contractual capacities of 38 lectures and 24 lab size classes, please submit supporting documentation and a rationale for the proposed variation in class size.

.

9. **Outcomes Assessment Component:** Provide details of the assessment measures that will be used in this course.

100% of students who complete the course will take the MSSC Safety assessment.

10. **General Education Objectives: G1, G4, T1, C1, C4**

This workforce solution was funded by a grant awarded by the U.S. Department of Labor’s Employment and Training Administration. The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timelines, usefulness, adequacy, continued availability, or ownership. This solution is copyrighted by the institution that created it. Internal use, by an organization and/or personal use by an individual for  non-commercial purposes, is permissible. All other uses require the prior authorization of the copyright holder.