

INTRODUCTION TO MANUFACTURING

Course Description

Students will be provided with an overview of the importance of manufacturing in their everyday life and what careers are possible with the skills learned in manufacturing. This course focuses on types of manufacturing, industrial materials used in manufacturing, manufacturing processes, quality control processes, a brief view of blueprints and diagrams, safety in manufacturing, supply chain contractors, and types of careers found in manufacturing with possible income levels. Students will also learn about the community college manufacturing programs right here in the State of Connecticut. This course will culminate with a Final Project.

Prerequisite

None

Credit Requirement Area

Vocational Education

Learning Objectives

Students will study and master the following concepts:

- Manufacturing Overview
- Types of Manufacturing
- Industrial Materials
- Manufacturing Processes
- Quality Management
- Blueprints and Diagrams
- Safety Guidelines
- Careers in Manufacturing

Suggested Weekly Schedule

| Week | Graded Activities | Suggested Due Date | % Points |
|--|--------------------------------------|---------------------|------------|
| 1 | Activity 1 - Program Finding | Monday of Week 1 | 22% |
| | Activity 2 - Manufacturing Interview | Tuesday of Week 1 | 22% |
| | Activity 3 - Women in Manufacturing | Wednesday of Week 1 | 22% |
| | Activity 4 - Section 1 Quiz | Thursday of Week 1 | 12% |
| | Activity 5 - Additive Manufacturing | Friday of Week 1 | 22% |
| Week 1 Total Percentage Towards Final Grade | | | 16% |
| 2 | Activity 1 - Section 3 Quiz | Monday of Week 2 | 25% |
| | Activity 2 - Research Assignment | Wednesday of Week 2 | 50% |
| | Activity 3 - Section 4 Quiz | Friday of Week 2 | 25% |
| Week 2 Total Percentage Towards Final Grade | | | 16% |

| Week | Graded Activities | Suggested Due Date | % Points |
|--|--------------------------------|---------------------------|-----------------|
| 3 | Activity 1 - ISO 9000 Research | Monday of Week 3 | 35% |
| | Activity 2 - Section 5 Quiz | Tuesday of Week 3 | 15% |
| | Activity 3 - Blueprint | Wednesday of Week 3 | 35% |
| | Activity 4 - Section 6 Quiz | Thursday of Week 3 | 15% |
| Week 3 Total Percentage Towards Final Grade | | | 16% |
| 4 | Activity 1 - Safety Guidelines | Monday of Week 4 | 70% |
| | Activity 2 - Section 7 Quiz | Wednesday of Week 4 | 30% |
| Week 4 Total Percentage Towards Final Grade | | | 16% |
| 5 | Activity 1 - Section 8 Quiz | Friday of Week 5 | 100% |
| Week 5 Total Percentage Towards Final Grade | | | 16% |
| 6 | Final Project | Friday of Week 6 | 100% |
| Week 6 Total Percentage Towards Final Grade | | | 20% |
| WEIGHTED TOTAL | | | 100% |