

COURSE INFORMATION:

Course Prefix/No.:	IMT 114
Course Title:	Bench Work and Assembly
Lecture Hours/Week:	1.0
Lab Hours/Week:	3.0
Credit Hours/Semester:	2.0

[Distance Learning Attendance/VA Statement](#)
[Textbook Information](#)

COURSE DESCRIPTION:

This course covers the use of hand and power tools, measuring, and prints associated with an assembly project.

COURSE COMPETENCIES:

Upon successful completion of this course, the student should be able to perform the following tasks:

Module 1 – Measurement and Layout

- Demonstrate the proper storage and maintenance of equipment.
- Demonstrate personal and shop safety at all times.
- Demonstrate the use of precision measuring devices.
- Demonstrate the use of shop drawings.
- Demonstrate the use of proper layout equipment and procedures.

Module 2 – Hand Tools

- Demonstrate personal and shop safety at all times.
- Demonstrate the proper startup and shutdown procedures and pressure settings for OxyFuel cutting system.
- Demonstrate the proper use of various hand tools, such as hacksaws, hand files, screwdrivers, wrenches, sockets, and punches.
- Demonstrate the proper storage and maintenance of equipment.

Module 3 – Power Tools

- Demonstrate personal and shop safety at all times.
- Demonstrate the proper use of various power tools, such as drill presses, hand drills, bench grinders, side grinders, circular saws, horizontal band saws.
- Demonstrate the proper storage and maintenance of equipment.

Module 4 - Fasteners

- Demonstrate personal and shop safety at all times.
- Identify selected fasteners, their size, strength, and their use in industry.
- Demonstrate the use of thread taps, dies and drill bit selection.
- Demonstrate the proper storage and maintenance of equipment.

MINIMAL STANDARDS:

Assignments and attendance must be completed as designated in "Evaluation Strategies/Grading." Criteria for minimal acceptable performance will be provided by the instructor.

REQUIREMENTS:

Attendance Policy

The college attendance policy, stated in the college handbook, will be honored. The instructor will provide specific requirements for the course.

Academic Honesty

Students are expected to adhere to the college policy regarding student conduct as stated in the college handbook.

Assignments

Students are expected to complete all assignments and any supplementary exercises designated by the instructor.

EVALUATION STRATEGIES/GRADING:

Successful completion of the course requires the completion of each module with an average of 70 points. Grades will be calculated from work attitude, all tests/projects, homework assignments, and laboratory assignments.

Grading Scale:

A = 90.0 – 100

B = 80.0 – 89.9

C = 70.0 – 79.9

D = 60.0 – 69.9

F = 00.0 – 59.9

Evaluation Method:

Tests/Shop Projects	Module 1	20% of final grade average
	Module 2	20% of final grade average
	Module 3	20% of final grade average
	Module 4	20% of final grade average
Work Attitude		20% of final grade average

Work Attitude is defined as:

- Participation
- Cooperation
- Appearance
- Effort
- Safety
- Responsibility
- Professionalism
- Attendance
- Self Motivation
- Works Independently

ENTRY LEVEL SKILLS:

The student must be able to read and solve basic mathematical equations.

PREREQUISITES/CO-REQUISITES:

Prerequisites: RDG 031 or equivalent; MAT 032 or equivalent

Co-requisite: None

METHODS OF INSTRUCTION:

Lectures, reading assignments, projects, discussions, video presentations, multi-media presentations, and web content are the major teaching methods used in this course.

Disabilities Statement: Any student who feels s/he may need an accommodation based on the impact of a disability should contact the Special Resources Offices (SR) at 803-327-8007 in the 300 area of Student Services. The SRO coordinates reasonable accommodations for students with documented disabilities.

Effective: 2009FA