

COURSE INFORMATION

Effective: Spring 2007

Course Prefix/No.: IMT 123
Course Title: Air Compressors
Lecture Hours/Week: 2.0
Lab Hours/Week: 0.0
Credit Hours/Semester: 2.0

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

COURSE DESCRIPTION:

This course covers methods used to install and/or maintain various types of air compressors.

COURSE COMPETENCIES:

Upon successful completion of this course, the student should be competent to perform the following task:

Module 1 – Pneumatic Principles and Compressor types

- Demonstrate personal and shop safety at all times.
- Explain the relationship between pressure, force and area.
- Explain the relationship between pressure, volume and temperature.
- Identify and explain the components of different types of air compressors.
- Demonstrate the proper storage and maintenance of equipment.

Module 2 – Air Treatment and Delivery Systems

- Demonstrate personal and shop safety at all times.
- Identify different methods and explain the components used for removing water and oil from compressed air.
- Identify different methods and explain the components used for cleaning and lubricating the compressed air.
- Properly size and lay out an air distribution system.
- Demonstrate the proper storage and maintenance of equipment.

Module 3 – Control Valving and Pneumatic Devices

- Demonstrate personal and shop safety at all times.
- Disassemble, define internal parts, repair and reassemble pneumatic power components.
- Draw simple pneumatic schematics and explain how the system operates.
- Demonstrate the proper storage and maintenance of equipment.

STANDARDS:

Assignments and attendance must be completed as designated in “Evaluation Strategies/Grading.” The instructor will provide criteria for minimal acceptable performance.

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 by the college handbook.

Projects

Students are expected to complete all homework, lab exercises, and any supplementary exercises designated by the instructor.

EVALUATION STRATEGIES/GRADING:

Successful completion of the course requires the completion of each of the three modules, all assignments/projects, and all tests with a minimum average of 70%.

Grading Scale:	A = 90 - 100
	B = 80 - 89
	C = 70 - 79
	D = 60 - 69
	F = 0 - 59

Evaluation Method:

<i>Tests:</i>	Module 1	33.3% of final grade average
	Module 2	33.3% of final grade average
	Module 3	33.3% of final grade average
	Total	100%

ENTRY LEVEL SKILLS: The student must be able to read and solve basic mathematical equations.

PREREQUISITE: RDG 031

CO-REQUISITES: None

METHODS OF INSTRUCTION:

The class will be taught in a class setting with a variety of methods, such as lecture, class discussion, and group work, and will provide individual application of skills.