

**Course Title:** INT-101 Introduction to Industrial Technology

**Course Instructor(s):** Anthony Valente

**Programs:** Industrial Technology, Alternative Energy Technology

### **Expected Learning Outcomes**

- Identify roles, structures and organization of typical maintenance operation.
- Learn how to work safely in a team environment using standard OSHA specified procedures.
- Explain the concepts and importance of proactive/predictive maintenance.
- Recognize and determine maintenance practices for common mechanical components.
- Locate and use online technical resources for the application and maintenance of industrial and commercial components.
- Identify mechanical fasteners, power transmission, bearing and coupling components.
- Recognize signs and causes of failure of power transmission components.
- Follow basic troubleshooting procedures for common mechanical systems and processes.

### **Assessment**

Assessments will include:  
2 written tests and a final written exam  
Classroom lab exercises and assignments

### **Validation**

1. Comparison of final exam results with national average skills in the industrial and commercial field of work.
2. The evaluation of student performance and ability to transfer knowledge to next level of class in the program.
3. Consult Advisory Committee participants as to performance of interns and hired students based on ability and knowledge gained.

### **Results**

The results of the testing and final examination will show the level of retention of the classroom materials.

The results of the practice exercises and assignments will show the ability of the student to transfer textbook information to hands-on applications.

## Course Outcomes INT-101 Intro to Industrial Technology

The results of the Advisory Committee input will allow us to place a rate of success in our database for ongoing improvement to the course and advise us of changes in technology and industry standards.

Internships will measure the student outcomes in a real world environment through feedback from internship supervisor.

*During the spring 2014 semester it was noted that the average grade for this course was 88%. Students performed well in the classroom activities that are considered beginner level, but continued to struggle with activities that involve logical thinking.*

### **Follow-up**

The data will be evaluated to improve teaching techniques

The data will be evaluated to help us remain up to date with technology changes.

*Additional emphasis will be placed on logical thinking using control of Hydraulics and Pneumatics systems.*

### **Budget Justification**

Update textbook to include changes in technology

Update classroom equipment to keep pace with changes in technology

*No textbook or budget changes required at this time.*