

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.

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Final grades for Fall 2013 indicate a class average of 87%. Students were successful at performing hands on classroom assignments.

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.

Develop additional hands on activities to include control panel prints, wiring and organization.

Budget Justification

Update textbook to include changes in technology

Update classroom equipment to keep pace with changes in technology

Teaching supply budget is sufficient to handle the changes at this time.