

Program Title: Industrial Technology

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Cross Walk: Learning Outcomes and Relevant Courses

| Learning Outcome | Relevant Course |
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| Outcome #1: Identify typical tools and proper use of a variety of devices including precision measurement. | INT 101 Introduction to Industrial Technology |
| Outcome #2: Perform test procedures (start-up) for a variety of industrial equipment such as hydraulics, pneumatic, pumps, hvac systems, boilers, compressed air systems etc. | INT 101 Introduction to Industrial Technology INT 102 Introduction to PLC INT 110 Fundamentals of Electricity INT 105 Plumbing and Pipefitting INT 107 Introduction to HVAC |
| Outcome #3: Perform data collection and evaluation for equipment used in the industrial environment. | INT 101 Introduction to Industrial Technology INT 110 Fundamentals of Electricity INT 105 Plumbing and Pipefitting INT 107 Introduction to HVAC |
| Outcome #4: Understand and use proper communications. | INT 101 Introduction to Industrial Technology |

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| Outcome #5: Maintain and troubleshoot a variety of systems. | INT 101 Introduction to Industrial Technology INT 102 Introduction to PLC INT 110 Fundamentals of Electricity INT 105 Plumbing and Pipefitting INT 107 Introduction to HVAC |
| Outcome #6: Recognize standard safety practices, procedures, and personal protection equipment. | INT 104 Facilities Safety and Compliance |

Expected Learning Outcomes

- Identify typical tools and proper use of a variety of devices including precision measurement.
- Perform test procedures (start-up) for a variety of industrial equipment such as hydraulics, pneumatic, pumps, hvac systems, boilers, compressed air systems etc.
- Perform data collection and evaluation for equipment used in the industrial environment.
- Understand and use proper communications.
- Maintain and troubleshoot a variety of systems.
- Recognize standard safety practices, procedures, and personal protection equipment.

Assessment (How do students demonstrate achievement of these outcomes?)

Final Project: Students will install components, test and start-up systems, and collect and analyze data.

Satisfactory scores on exams and projects.

Satisfactory scores on exams modeled after industry standard certification exams.

Validation (What methods are used to validate your assessment?)

1. Approval by Industrial Technology/Alternative Energy Technology Advisory Committee
2. Tests comparable to Industry Standard Certification Exams.
3. Faculty Review
2. Project similar in scope real world experience/installation.

Results (What do the data show?)

Testing results internship evaluations, as well as hands-one practices show that the majority of the students are achieving desired program outcomes. Feedback from the advisory committee indicates that we are addressing needed skills related to Industrial Technology.

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Follow-up (How have you used the data to improve student learning?)

The above data as well as student evaluations have been used to modify presentations and add more hands-on experiences.

Budget Justification

(What resources are necessary to improve student learning?)

Currently evaluating needs as a result of the above information for the FY15/16 budget year.