

## Course Outcomes Guide

**Course/Program Title: ELE 215 SPC and Device Data Management**

**Date: 4/30/2012**

**Course/Program Team: Robert Fergesen & TCS**

### Expected Learning Outcomes

- Knowledge of Instrumentation and Process Control

Specific area of knowledge in this case will be the use of data collection devices and controls across the board, and the use of this data for statistical process control and reporting.

- Knowledge of Instrumentation troubleshooting, repair and maintenance
- Demonstrate competency of the subject matter in an applied environment

**Assessment** (How do or will students demonstrate achievement of each outcome?)

- Exams
- Exercises and Assignments
- Project similar in scope real world experience/installation

**Validation** (What methods have you used or will you use to validate your assessment?)

The assessments will be validated by review from the following sources:

1. Facility Peer validation
2. Industry validation through the Advisory Committee.

**Results** (What do your assessment data show? If you have not yet assessed student achievement of your learning outcomes, when is assessment planned?)

The assessment will be planned at the end of the first semester this course will be offered: Spring 2013.

**Follow-up** (How have you used or how will you use the data to improve student learning?)

Assessment data will be gathered to be sure students are retaining key knowledge as required by future jobs in the industry. Additional course material or time will be added if scores do not show retention.

**Budget Justification** (What resources are necessary to improve student learning?)

No additional dollars will be required for the first semester we run this course because we will use materials already purchased for the Energy House. Additional equipment may be required in semester 2 depending on the results.