## Course SLOs 1 and ctu.unitid = 752

<table>
<thead>
<tr>
<th>Assessment Methods &amp; Standard and Target for Success / Tasks</th>
<th>Results</th>
<th>Action &amp; Follow-Up</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assessment Method Description:</strong> Students will be given a test circuit where they will use a DMM, Digital Multimeter, to make in-circuit measurements, selecting the most accurate settings and ranges as needed to obtain a useful measurements of: AC/DC voltage, current, and resistance.</td>
<td>04/01/2014 - See related document ECHT 11.1</td>
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</tr>
<tr>
<td><strong>Standard and Target for Success:</strong></td>
<td><strong>Standard Met?</strong></td>
<td><strong>Semester and Year Assessment Conducted:</strong></td>
</tr>
<tr>
<td>The goal of this standard to achieve at least 75% Mastery.</td>
<td>Yes</td>
<td>2013-14 (Fall 2013)</td>
</tr>
<tr>
<td><strong>Assessment Method:</strong></td>
<td><strong>Faculty Assessment Leader:</strong></td>
<td>Steve Cocca</td>
</tr>
<tr>
<td>Performance</td>
<td>Related Documents:</td>
<td>ECHT 11.1 assessment - 13 fall.doc</td>
</tr>
</tbody>
</table>

### Course SLO Assessment Cycle:
- 2014-15 (Fall 2014)
- 2017-18 (Fall 2017)

### Input Date:
- 11/12/2013

### Course SLO Status:
- Active

**Assessment Method Description:**
- The student will make basic “in-circuit” measurements: AC/DC, Alternating Current and Direct Current, Voltages and Current, and Resistance, using a Bench and Portable DMM, Digital Multi-meter, while comparing measured values against anticipated values.

**Standard and Target for Success:**
- 75%

### Results
**04/22/2014 - Since we are focused on assessing our students' ability to make physical electrical measurements, for voltage and currents, each of the eight highlighted will have a weighted value of 1.25 points, out 10 points maximum.**

**Students N= 21**
- Mastery Level 3 (earning 100-75% possible points) Clearly identifies trends/patterns in data yielded through measurements Develops “solid” conclusions based on data obtained from circuit measurements related to industrial practices
  - # Students 17% 80.9

**Action Category:**
- Teaching Strategies

**04/30/2015 6:28 PM**

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### Assessment Methods & Standard and Target for Success / Tasks

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<td>through measurements Develops “solid” conclusions based on data obtained from circuit measurements # Students 3% 14 Non Mastery 1 (earning 64-0% possible points) “Cannot” identify trends/patterns in data yielded through measurements “Cannot” develop conclusions based on data obtained from circuit measurements # Students 1% 4</td>
<td>10/15/2015 - Develop student software application skills early in the semester</td>
</tr>
<tr>
<td>Ability to make “in-circuit” Measuring Voltages and Currents measurements: Partial Mastery 2 (74-65% Assignment/Assessment possible) Somewhat identifies trends/patterns in data yielded through measurements Develops “partial” conclusions based on data obtained from circuit measurements Ability to make “in-circuit” Measuring Voltages and Currents measurements: Non Mastery 1 (64-0% Assignment/Assessment possible) “Cannot” identify trends/patterns in data yielded through measurements “Cannot” develop conclusions based on data obtained from circuit measurements See related document ECHT 11 SLO 1 Assessment F14</td>
<td>04/30/2015 6:28 PM Generated by TracDat a product of Nuventive.</td>
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### Course SLO Assessment Cycle:
- 2014-15 (Fall 2014)
- 2017-18 (Fall 2017)

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### Course SLO Status:
- Active

### Assessment Method Description:
The students will be able to use various circuit analysis calculations to predict a basic circuits operation.

### Assessment Method:
- Exam/Test/Quiz

### Standard and Target for Success:
- 70%

### Course SLO #3 Circuit Analysis Calculations

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#### Results

- **Experimental Data and Analysis Reporting:**
  - **Partial Mastery 2 (74-65% possible Points):** Somewhat able to incorporate experimental data and analysis reporting protocols, using either “paper” or “paperless” environments, similar to data reporting and analysis used by many Electronics Manufacturers and Service Organizations.
  - **Non Mastery 1 (64-0% possible Points):** Cannot incorporate experimental data and analysis reporting protocols, using either “paper” or “paperless” environments, similar to data reporting and analysis used by many Electronics Manufacturers and Service Organizations.

#### Action & Follow-Up

- 10/15/2015 - Give students more sample problems to practice on to improve Mastery

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Page 3 of 4
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