

# Assessment: Course Four Column

## Courses (CTE) - Electrical Systems Technology

### ELM 143:Wiring Techniques

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
<p><b>Hand and power tools used in electrical industry</b> - Identify and use hand and power tools used in the electrical industry</p> <p><b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2016-2017  <b>Start Date:</b> 09/11/2013</p>	<p><b>Exam</b> - Student will use various tools on lab projects, Verbal test to follow.  <b>Criterion:</b> Written Test</p>	<p><b>Reporting Period:</b> 2017-2018  <b>Criterion Met:</b> Yes            90% of students passed with C or above. (11/13/2018)</p>	
<p><b>Test equipment</b> - Identify test equipment used in the electrical industry.</p> <p><b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2016-2017  <b>Start Date:</b> 09/11/2013</p>	<p><b>Demonstrate</b> - Student will demonstrate competency with test equipment.  <b>Criterion:</b> Hands on lab assessment, Pass/Fail</p>	<p><b>Reporting Period:</b> 2017-2018  <b>Criterion Met:</b> Yes            85% of the student passed assessment. (11/13/2018)</p>	<p><b>Action:</b> Additional review for some students might be necessary to support outcome. (11/13/2018)</p>
<p><b>Troubleshooting electrical equipment</b> - Describe methods for troubleshooting electrical equipment.</p> <p><b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2016-2017  <b>Start Date:</b> 09/11/2013</p>	<p><b>Demonstrate</b> - Students will complete 4 levels of Simutech troubleshooting simulation software  <b>Criterion:</b> 80% + score completion at end of unit.</p>	<p><b>Reporting Period:</b> 2017-2018  <b>Criterion Met:</b> Yes            88% of the students completed all 4 levels of troubleshooting software. (11/13/2018)</p>	<p><b>Action:</b> Some students struggle with specific troubleshooting techniques. Additional tutoring and time outside of class might be necessary to support outcome. (11/13/2018)</p>
<p><b>Estimate electrical material and labor quantities.</b> - Estimate electrical material and labor quantities.</p> <p><b>Course Outcome Status:</b> Active</p>	<p><b>Assignment - Project</b> - Student will complete estimate of assigned project utilizing estimating software.  <b>Criterion:</b> 80% accuracy</p>	<p><b>Reporting Period:</b> 2017-2018  <b>Criterion Met:</b> Yes            90% of student met the 80% accuracy requirement. (11/13/2018)</p>	

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
------------------------	----------------------------	----------------	----------------

**Next Assessment:** 2016-2017  
**Start Date:** 09/11/2013

**Design and install various electrical system circuits** - Design and install various electrical system circuits.  
**Course Outcome Status:** Active  
**Next Assessment:** 2022-2023

**Assignment - Project** - Project design and installation activity  
**Criterion:** Completion to National Electrical Code standards.

**Reporting Period:** 2017-2018  
**Criterion Met:** Yes  
 100% of student were able to complete assigned project (11/13/2018)