

# Assessment: Course Four Column



## Courses (CTE) - Electrical Systems Technology

### ELM 133:Advanced AC Controls

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
<p><b>Control circuits</b> - Recognize component in control circuits - both physically and schematically.  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 07/26/2016</p>	<p><b>Exam</b> - Exam consisting of component identification on plans and appearance  <b>Criterion:</b> Completion with 85% accuracy.</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes                      Student average was above 85%. (08/31/2016)</p>	<p><b>Action:</b> Provide students additional time for study and familiarization (08/31/2016)</p>
<p><b>Design and interpret various motor-control wiring</b> - Design and interpret various motor-control wiring diagrams, schematics, one line, loop, and ladder diagrams  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 08/31/2016</p>	<p><b>Assignment - Lab</b> - Provide students with various lab scenarios for design. Labs 1-5  <b>Criterion:</b> Completion with 85% accuracy.</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes                      Student average was above 85% for design (08/31/2016)</p>	<p><b>Action:</b> Spend more class time reviewing diagrams, schematics, one line, loop, and ladder diagrams (08/31/2016)</p>
<p><b>Identify different types of control devices</b> - Identify different types of control devices and explain how to connect and apply each in a circuit.  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 08/31/2016</p>	<p><b>Assignment - Lab</b> - Student will physically install devices after circuit design  <b>Criterion:</b> 90% + accuracy</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes                      90% of students were able to wire control devices correctly (08/31/2016)</p>	
<p><b>Solenoid-operated directional control valves and design a pneumatic Suspension system</b> - Describe the application for solenoid-operated directional control</p>	<p><b>Assignment - Lab</b> - Student will design a solenoid control circuit for a vehicle car suspension system on Automation Studios design software.</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes                      95% of the students were able to design suspension system correctly. (08/31/2016)</p>	

<i>Course Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
and design a pneumatic Suspension system.  <b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2020-2021 <b>Start Date:</b> 08/31/2016	<b>Criterion:</b> 90% + design <b>Exam - Exam Unit 7, Solenoids</b> <b>Criterion:</b> 80% Exam accuracy	<b>Reporting Period:</b> 2015-2016 <b>Criterion Met:</b> Yes 87% student average on Exam 7 (08/31/2016)	
<b>Wire a reversing AC motor Control and run a motor</b> - Wire a reversing AC motor Control and run a motor.  <b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2020-2021 <b>Start Date:</b> 08/31/2016	<b>Assignment - Project</b> - Students will design and wire a reversing AC motor circuit. <b>Criterion:</b> 100% + accuracy	<b>Reporting Period:</b> 2015-2016 <b>Criterion Met:</b> Yes 100% of students were able to design and wire circuit correctly (08/31/2016)	