



# Course Assessment Report - 4 Column

## Great Basin College

### Courses (CTE) - Electrical Instrumentation Tech

Course Outcomes 1 and ctu.unitid = 699	Means of Assessment & Criteria / Tasks	Results	Action & Follow-Up
<p>EIT 233 - Intro to Instrumentation - RMeasuring instruments - Recognize how and why measuring instruments play an important role in the control of industrial and manufacturing processes.</p> <p><b>Next Assessment:</b> 2019-2020</p> <p><b>Start Date:</b> 08/03/2015</p> <p><b>Course Outcome Status:</b> Active</p>	<p><b>Assessment Measure:</b></p> <ol style="list-style-type: none"> <li>1. Graded homework:</li> <li>2. Weekly report: Each week, each student will prepare a short (one paragraph, no more than 50-100 word), concise, coherent written statement of what he or she learned this week.</li> <li>3. Graded quizzes</li> </ol> <p><b>Assessment Measure Category:</b> Quiz</p> <p><b>Criterion:</b> N/A</p>	<p>08/04/2015 - All student successfully passed assessment</p> <p><b>Criterion Met:</b> N/A</p> <p><b>Reporting Period:</b> 2014-2015</p>	<p>08/04/2015 - I plan to continue using these assignments for students.</p> <hr/>
<p>EIT 233 - Intro to Instrumentation - Basic calculations related to instrumentation - Have the ability to carry out basic calculations related to instrumentation.</p> <p><b>Next Assessment:</b> 2019-2020</p> <p><b>Start Date:</b> 08/03/2015</p> <p><b>Course Outcome Status:</b> Active</p>	<p><b>Assessment Measure:</b></p> <ol style="list-style-type: none"> <li>1. Homework problem sets are graded and reviewed.</li> <li>2. Students are asked to carry out unit conversions on the board in class.</li> <li>3. Lab work to read gauges and levels.</li> </ol> <p><b>Assessment Measure Category:</b> Assignment - Lab</p> <p><b>Criterion:</b> N/A</p>	<p>08/04/2015 - All student successfully passed assessment measures and were able to meet the following competencies:</p> <ol style="list-style-type: none"> <li>a. Carry out basic unit conversions</li> <li>b. Read gauges, levels, thermometers</li> <li>c. Understand the importance of units for measurements</li> </ol> <p><b>Criterion Met:</b> N/A</p> <p><b>Reporting Period:</b> 2014-2015</p>	<p>08/04/2015 - I plan to continue using these assignments for students.</p> <hr/>
<p>EIT 233 - Intro to Instrumentation - Pressure Level Temperature Flow - Instrumentation theory and instruments as related to: Pressure Level Temperature Flow</p> <p><b>Next Assessment:</b> 2019-2020</p> <p><b>Start Date:</b> 08/03/2015</p> <p><b>Course Outcome Status:</b> Active</p>	<p><b>Assessment Measure:</b></p> <ol style="list-style-type: none"> <li>1. Homework problem sets are graded and reviewed.</li> <li>2. Quizzes and tests which cover both theory and application of measurements related to pressure, flow and level.</li> <li>3. Practical laboratory exercises which include fundamental theory.</li> </ol> <p><b>Assessment Measure Category:</b> Quiz</p> <p><b>Criterion:</b> N/A</p>	<p>08/04/2015 - All student successfully passed assessment measures and were able to meet the following competencies:</p> <ol style="list-style-type: none"> <li>a. Have basic understanding of underlying phenomena used to make measurements.</li> <li>b. Understand that every measurement has units, variation and precision.</li> <li>c. Correctly read gauges, levels, indicators.</li> <li>d. Correctly build and wire a thermocouple</li> </ol> <p><b>Criterion Met:</b> N/A</p> <p><b>Reporting Period:</b> 2014-2015</p>	<p>08/04/2015 - I plan to continue using these assignments for students. In addition, I plan to add supplementary videos explaining the more difficult concepts.</p> <hr/>
<p>EIT 233 - Intro to Instrumentation - Basic feedback control loops - Understand basic</p>	<p><b>Assessment Measure:</b></p> <ol style="list-style-type: none"> <li>1. Homework problem sets are graded and</li> </ol>	<p>08/04/2015 - All student successfully passed assessment measures and were able to meet the</p>	

Course Outcomes 1 and ctu.unitid = 699	Means of Assessment & Criteria / Tasks	Results	Action & Follow-Up
<p>feedback control loops used in industrial processes.</p> <p><b>Next Assessment:</b> 2019-2020</p> <p><b>Start Date:</b> 08/03/2015</p> <p><b>Course Outcome Status:</b> Active</p>	<p>reviewed.</p> <p>2. Program UDC 3300 (a PID controller) parameters to operate a closed loop level control system in the lab.</p> <p>3. Perform calibration of thermocouples, RTDs, and differential pressure transducers during lab.</p> <p><b>Assessment Measure Category:</b> Assignment - Lab</p> <p><b>Criterion:</b> N/A</p>	<p>following competencies:</p> <p>a. Identify characteristics of open and closed loop control.</p> <p>b. Carry out level control using a laboratory trainer.</p> <p>c. Demonstrate competency using calibration equipment.</p> <p><b>Criterion Met:</b> N/A</p> <p><b>Reporting Period:</b> 2014-2015</p>	<p>08/04/2015 - I plan to continue using these assignments for students.</p> <p>I plan to add a skill demonstration checklist for each student. Each student will be required to demonstrate skills in the lab.</p> <p><b>Follow-Up:</b> 08/04/2015 - All students successfully passed this course. The text required for the class was good, workbook for the book is very good. Next year I plan to have students work through a larger number of the workbook problems and to have these problems on Canvas. Evaluations of student learning outcomes completed by students were categorized as agree or strongly agree. I plan to add practical exams to the lab to emphasize key skills and provide a measure of student competency.</p>