



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 323 - Installation and Configuration - Tool use - Tool use:</p> <ol style="list-style-type: none"> 1. Use of personal protective equipment 2. Hand and power tools 3. Fasteners 4. Tubing, hoses and piping under 2" 5. Welding <p>Next Assessment: 2019-2020</p> <p>Start Date: 08/03/2015</p> <p>Course Outcome Status: Active</p>	<p>Assessment Measure:</p> <ol style="list-style-type: none"> 1. Graded homework based on NCCER workbooks 2. Graded quizzes using NCCER course materials 3. Students were required to select fasteners given application specifications. 4. Students were required to select fittings given application specifications. <p>Assessment Measure Category: Assignment - Lab</p> <p>Criterion: N/A</p>	<p>08/04/2015 - All student successfully passed assessment measures and were able to carry out lab exercises. However, hands on skills were practiced and not tested.</p> <p>Criterion Met: N/A</p> <p>Reporting Period: 2014-2015</p>	<p>08/04/2015 - All student successfully passed assessment measures and were able to carry out lab exercises. However, hands on skills were practiced and not tested.</p>
<p>EIT 323 - Installation and Configuration - Handling of instrumentation equipment - Handling of instrumentation equipment.</p> <ol style="list-style-type: none"> 1. The receipt, inspection, handling and storage of instrumentation equipment 2. Gaskets and packing, Lubricants, sealants, and cleansers. <p>Next Assessment: 2019-2020</p> <p>Start Date: 08/03/2015</p> <p>Course Outcome Status: Active</p>	<p>Assessment Measure:</p> <ol style="list-style-type: none"> 1. Homework problem sets based on NCCER books are graded and reviewed. 2. Quiz on chemical compatibility materials in general and for gaskets. 3. NCCER book had section on receipt, inspection of instruments. <p>Assessment Measure Category: Assignment - Lab</p> <p>Criterion: N/A</p>	<p>08/04/2015 - All student successfully passed assessment measures.</p> <p>Criterion Met: N/A</p> <p>Reporting Period: 2014-2015</p>	<p>08/04/2015 - I plan to continue using these assignments for students.</p>
<p>EIT 323 - Installation and Configuration - Tubing, piping and hoses - Tubing, piping and hoses</p> <ol style="list-style-type: none"> 1. Measurement and bending of tubing and piping 2. Support methods for tubing and piping <p>Next Assessment: 2019-2020</p> <p>Start Date: 08/03/2015</p> <p>Course Outcome Status: Active</p>	<p>Assessment Measure:</p> <ol style="list-style-type: none"> 1. Tubing was covered with homework. 2. Parker vendor gave lecture/training on tube bending 3. Two days in lab bending tubing. <p>Assessment Measure Category: Assignment - Lab</p> <p>Criterion: N/A</p>	<p>08/04/2015 - All student successfully passed assessment measures.</p> <p>Students were required to bend tubing into a prescribed pattern.</p> <p>Criterion Met: N/A</p> <p>Reporting Period: 2014-2015</p>	<p>08/04/2015 - Tube bending was well covered.</p> <p>A practicum test for tube bending worked well.</p>
<p>EIT 323 - Installation and Configuration - Maintenance and testing - Maintenance and testing</p> <ol style="list-style-type: none"> 1. Blow - down of air and signals 2. Cleaning and purging of tubing, piping and 	<p>Assessment Measure:</p> <ol style="list-style-type: none"> 1. Homework for blow down 2. Homework for cleaning of tubing, hoses or piping 3. Leak testing was practiced in lab without 	<p>08/04/2015 - All students completed homework on cleaning and purging.</p> <p>Criterion Met: N/A</p> <p>Reporting Period:</p>	<p>08/04/2015 - Assessments for this section of material could use improvement.</p>

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hoses 3. Leak test for tubing and piping Next Assessment: 2019-2020 Start Date: 08/03/2015 Course Outcome Status: Active	specific requirements. Assessment Measure Category: Assignment - Lab Criterion: N/A	2014-2015	
EIT 323 - Installation and Configuration - Panels - Panels 1. Control panel layouts 2. Junction boxes 3. Panel materials Next Assessment: 2019-2020 Start Date: 08/03/2015 Course Outcome Status: Active	Assessment Measure: 1. Homework included different classes of panels for use outdoors, indoors in explosive atmospheres etc... Assessment Measure Category: Assignment - Project Criterion: N/A	08/04/2015 - All student successfully passed assessment measures. Criterion Met: N/A Reporting Period: 2014-2015	08/04/2015 - The instrumentation program did not cover panel building in this or other classes. A review of inclusion of panel building for the program is needed.
EIT 323 - Installation and Configuration - Wiring cautions and precautions - Wiring cautions and precautions 1. Proper shielding and grounding of instrumentation wiring 2. Manifolds, raceways 3. Cable testing, the use of meggers 4. Preventative measures 5. Methods of heat tracing 6. Metallurgy for Instrumentation Next Assessment: 2019-2020 Start Date: 08/03/2015 Course Outcome Status: Active	Assessment Measure: Homework problem sets based on NCCER books are graded and reviewed. Assessment Measure Category: Homework Criterion: N/A	08/04/2015 - All student successfully passed assessment measures. Meggers were not covered Criterion Met: N/A Reporting Period: 2014-2015	08/04/2015 - This outcome was addressed through the completion of homework. Plan to include a demonstration on noise pickup for next years lab. Metallurgy is also relevant to fasteners and fittings.
EIT 323 - Installation and Configuration - Manufacturers installation recommendations - Manufacturers installation recommendations Next Assessment: 2019-2020 Start Date: 08/03/2015 Course Outcome Status: Active	Assessment Measure: 1. Review of UDC 3300 manual to correctly install and wire this controller. 2. Wiring diagrams specific instruments were used to configure equipment in the lab Assessment Measure Category: Assignment - Lab Criterion: N/A	08/04/2015 - All student successfully passed assessment measures. Criterion Met: N/A Reporting Period: 2014-2015	08/04/2015 - This outcome is very specific depending on instrument. Plan to review this outcome.
EIT 323 - Installation and Configuration - Standard codes for installation of instrumentation			

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<p>- Standard codes for installation of instrumentation, ANSI, ASME, ASTM, MSS, CFR</p> <p>Next Assessment: 2019-2020</p> <p>Start Date: 08/03/2015</p> <p>Course Outcome Status: Active</p>	<p>Assessment Measure: Review of terms and familiarization of the various bodies that produce certifications, regulations, and guidance.</p> <p>Assessment Measure Category: Homework</p> <p>Criterion: N/A</p>	<p>08/04/2015 - All student successfully passed assessment measures.</p> <p>Criterion Met: N/A</p> <p>Reporting Period: 2014-2015</p>	<p>08/04/2015 - These codes are extensive in nature. This course serves to make students aware that the codes exist, but is in no way addressing the codes with any depth.</p>
<p>EIT 323 - Installation and Configuration - Stand-alone controllers and recorders - Program stand-alone controllers and recorders (Optional – Panel construction is priority)</p> <p>1. Honeywell UDC3300 controller 2. Omega RD260 programmable recorder</p> <p>Next Assessment: 2019-2020</p> <p>Start Date: 08/03/2015</p> <p>Course Outcome Status: Active</p>	<p>Assessment Measure: 1. Lab work using UDC 3300 to control process level 2. Review of UDC 3300 manuals</p> <p>Assessment Measure Category: Assignment - Lab</p> <p>Criterion: N/A</p>	<p>08/04/2015 - Use of the Honeywell controller as well as its installation, wiring and programming was practiced in lab. No assessment was carried out.</p> <p>Criterion Met: N/A</p> <p>Reporting Period: 2014-2015</p>	<p>08/04/2015 - The Honeywell controller is venerable but still widely used. The Omega programmable controller was not used. Inclusion of strip recorders in the class could be re-assessed.</p>
<p>EIT 323 - Installation and Configuration - Detail drawings and material - 1. Installation detail drawings 2. Selection of material</p> <p>Next Assessment: 2019-2020</p> <p>Start Date: 08/03/2015</p> <p>Course Outcome Status: Inactive</p>	<p>Assessment Measure: 1. Homework covered material selection 2. Quiz covering material selection</p> <p>Assessment Measure Category: Assignment - Lab</p> <p>Criterion: N/A</p>	<p>08/04/2015 - All student successfully passed assessment measures.</p> <p>Criterion Met: N/A</p> <p>Reporting Period: 2014-2015</p>	<p>08/04/2015 - The installation detail drawings is specific to the instrument. Outcome 7 covers the same installation material. Outcome 5 and 6 covers materials. This outcome could be dropped.</p> <p>Follow-Up: 08/04/2015 - All students successfully passed this course. The NCCER texts required for the class were acceptable, but required skipping between three separate books for content. Next year I plan to use handouts and videos to cover the material covered by NCCER books. I plan to add practical exams to the lab to emphasize key skills and provide a measure of student competency.</p> <p>Ten outcomes is probably too many for a three week course. Overall the course syllabus covers too many topics making it difficult to both cover the material and assess student competency. I recommend we</p>

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			<p>Follow-Up: review the syllabus and reduce the number of covered items.</p> <hr/>