Assessment: Program Assessment Plan

Program (CTE) - Welding Technology CRT

Unit Mission: Great Basin College is dedicated to welding training and education excellence. Our mission is to provide students with the training necessary for entry-level and continuing education to prepare them to meet the career, citizenship and lifelong learning challenges that they will face in the ever-changing global society and economy.

Outcome: Welding

Make satisfactory welds in all positions using the following welding processes:
Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), Gas Tungsten Arc Welding (GTAW)

Outcome Status: Active
Assessment Year: 2015-2016
Start Date: 01/11/2016

Assessment Measures

Demonstrate - Graduates of the Welding Technology Certificate of Achievement Program will have the knowledge and skills to make satisfactory welds in all positions using the following welding processes:

- Shielded Metal Arc Welding (SMAW)
- Gas Metal Arc Welding (GMAW)
- Flux Cored Arc Welding (FCAW)
- Gas Tungsten Arc Welding (GTAW) (Active)

Criterion: 90% of the students in the Welding Technology Certificate of Achievement Program will achieve 75% of the American Welding Society's D1.1 Structural Welding Code; Clause 6 Inspection, Visual Inspection Acceptance Criteria for Statically Loaded Nontubular Connections on welding laboratory assignments.
Notes: The students will demonstrate his or her ability to produce satisfactory welds, set forth by the instructor. These welds will be judged for soundness and quality as set forth by the American Welding Society's D1.1 Structural Welding Code.

Outcome: Cutting

Make satisfactory cuts with the following processes:
Oxygen Fuel Cutting (OFC), Plasma Arc Cutting (PAC), Air Carbon Arc Cutting (ACC)

Outcome Status: Active
Assessment Year: 2016-2017
Start Date: 01/09/2017

Assessment Measures

Program (CTE) - Welding Technology CRT

Demonstrate - Graduates of the Welding Technology Certificate of Achievement Program will have the knowledge and skills to make satisfactory cuts with the following processes:

- Oxygen Fuel Cutting (OFC)
- Plasma Arc Cutting (PAC)
- Carbon Arc Cutting-Air (CAC-A)

(Active)

Criterion: 90% of the students in the Welding Technology Certificate of Achievement Program will achieve 75% of the American Welding Society's D1.1 Structural Welding Code; Clause 5 Fabrication requirements on cutting laboratory assignments.
Notes: The students will demonstrate his or her ability to produce satisfactory cuts, set forth by the instructor. These welds will be judged for roughness and quality as set forth by the American Welding Society's D1.1 Structural Welding Code.

Outcome: Safety

Safety

Outcome Status: Active
Assessment Year: 2018-2019
Start Date: 01/08/2018

Assessment Measures

Demonstrate - Graduates of the Welding Technology Certificate of Achievement Program will have the knowledge for Welding and cutting Safety. (Active)

Criterion: 100% of the students in the Welding Technology Certificate of Achievement Program will achieve an 80% or higher score on the written test for Safety.
Notes: Students that have not passed the Welding safety test with an 80% or higher grade will retake the test until they pass or they will not be allowed the in Welding shop.

Outcome: Weld Symbols, and Metallurgy Fundamentals

Weld Symbols, and Metallurgy Fundamentals

Outcome Status: Active
Assessment Year: 2018-2019
Start Date: 01/08/2018

Assessment Measures

Demonstrate - Graduates of the Welding Technology Certificate of Achievement Program will be able to Interpret:

- Welding blueprints and welding symbols.
- Basic welding metallurgy.

(Active)

Criterion: 90% of the students in the Welding Technology Certificate of Achievement Program will achieve score of 70% or higher on Midterm and Final Tests for the Drawing and Weld Symbol Interpretation and Metallurgy Fundamentals for Welding.

Outcome: Pipe layouts

Perform pipe layouts.

Outcome Status: Active
Assessment Year: 2011-2012