Assessment: Program Assessment Plan

Program (CTE) - AAS Welding Technology

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: Make satisfactory welds

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: 01/25/2016

Assessment Measures

Assignment - Project - Graduates of the Welding Technology Associate of Applied Science Degree 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 Associate of Applied Science Degree 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: Make satisfactory cuts

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: 2015-2016
Start Date: 01/25/2016

Assessment Measures

Program (CTE) - AAS Welding Technology

Written Test/Exam - Graduates of the Welding Technology Associate of Applied Science Degree 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-A (CAC-A)

(Active)

Criterion: 90% of the students in the Welding Technology Associate of Applied Science Degree 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: Blueprint and welding symbol interpretation

Interpret welding blueprints and welding symbols.

Outcome Status: Active
Assessment Year: 2015-2016
Start Date: 01/25/2016

Assessment Measures

Written Test/Exam - Graduates of the Welding Technology Associate of Applied Science Degree Program will be able to Interpret:

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

(Active)

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

Outcome: Safety

Safety

Outcome Status: Active
Assessment Year: 2015-2016
Start Date: 01/25/2016

Assessment Measures

Written Test/Exam - Graduates of the Welding Technology Associate of Applied Science Degree Program will have the knowledge for Welding and cutting Safety.

(Active)

Criterion: 100% of the students in the Welding Technology Associate of Applied Science Degree 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: English

English

Program (CTE) - AAS Welding Technology

Outcome Status: Active
Assessment Year: 2015-2016
Start Date: 01/25/2016

Assessment Measures

Assignment - Project - Graduates of the Welding Technology Associate of Applied Science Degree Program will be able to communicate technical information:

•Basic skills necessary for successful on-the-job communications including improved letter and report writing, persuasion, interviewing, process, mechanism description, and business and technical grammar.

•Advanced letter and report writing techniques including proper word choice, tone, and structure. Business letters, memorandums, formal and informal reports, process, and mechanism descriptions.

(Active)

Criterion: 90% of the students in the Welding Technology Associate of Applied Science Degree Program will achieve a score of 70% or higher in ENG 107 and ENG 108.

Outcome: Basic welding metallurgy

Utilize basic welding metallurgy.

Outcome Status: Active
Assessment Year: 2011-2012

Outcome: Pipe layouts

Perform pipe layouts.

Outcome Status: Active
Assessment Year: 2011-2012