B. Attach or insert Course or Program Assessment Summary (CPAS) form for each course in the program. Faculty may summarize data results rather than providing raw data or exact figures.

WELD 175

Course or Program Assessment Summary

http://academic.cuesta.edu/sloa/docs/Course_and_Program_Assessment_Summary_F_2011.docx

This form can be used to record SLO assessment plans and results for courses or programs. It is recommended that this document be stored on a group drive, or in MyCuesta.

Division: **Engineering Technology** *Program:* **Welding** *Date:* **May 2014** *v. 3 2012*

Courses in program, or course: _____**WELD 175 – Blueprint Reading and Materials Processing**_____

Faculty involved with the assessment and analysis: ***Rob Thoresen***

Course-to-program outcome mapping document** is completed Yes__X___ No_____

1	Student Learning Outcome Statements □ Program □ Course	***SLO2:*** Apply integrated knowledge with incremental skill improvement resulting in functional application of welding techniques. ***SLO 3:*** Use proper hand, measuring and layout tools to fabricate welding projects. ***SLO 4***: Apply academic skills in reading, mathematics, chemistry and physics to the application of welding skills.
2	Assessment Methods Plan (identify assessment instruments, scoring rubrics, SLO mapping diagrams)	***SLO2:*** Demonstrative weld completion and documentation of knowledge progress evaluation. ****Assessment Tool:*** 1. ***Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** 2. ***Student Survey*** ***SLO 3:*** Each welding course will require the completion of shop projects which incorporate the use of common fabrication tools. ****Assessment Tool:*** 1. ***Student Survey*** ***SLO 4***: Record of traditional knowledge assessments followed by hands on application to welding procedures in the laboratory to produce weldments and projects which incorporate said objectives and outcomes. ****Assessment Tool:*** 1. ***Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** 2. ***Student Survey***
3	Assessment Administration Plan (date(s), sample size or selection of course sections, scoring procedures, etc.)	All welding courses have SLO's and assessments identified. The administration of assessments is ongoing each semester. *The attached Program SLO Mapping document reflects which Program SLO's align with various courses and indicates the calendar by which the assessments are administered.*
4	Assessment Results Summary (summarize Data)	**WELD 175 Data Spring 2014 (SLO 2, 3 and 4):** ***Assessment Tool #1 from above (Student performance reflect by grades):*** Overall performance data indicates that 93% of the students achieved above the 70 percentile mark. Specific breakdown Included 22% of the population achieving 90 percent or better, 39% achieving 80-90%, 32% achieving 70 – 80% and 7% below 60 percent. ***Assessment Tool #2 from above (Student Survey):*** 80% of students indicated that there was more emphasis on Industry practices than on material processing .
5	Discussion of Assessment Procedure and Results, and Effectiveness of Previous Improvement Plans	There were no previous plans for Improvement.
6	Recommended Changes & Plans for Implementation of Improvements	Change the Title of the Course from "Blueprint Reading – Materials Processing" to "Blueprint Reading – Industry Practices"
7	Description or evidence of dialog among course or program-level faculty about assessment plan and results	SLO's, assessments, assessment results and improvement plan are discussed at both the Welding Department meetings and Welding Advisory Committee meetings as evidenced by department meeting agendas/minutes. Letters from Industry.

WELD 176

Course or Program Assessment Summary

http://academic.cuesta.edu/sloa/docs/Course_and_Program_Assessment_Summary_F_2011.docx

This form can be used to record SLO assessment plans and results for courses or programs. It is recommended that this document be stored on a group drive, or in MyCuesta.

Division: **Engineering Technology** *Program:* **Welding** *Date:* **December 2014** *v. 3 2012*

Courses in program, or course: _____**WELD 176 – Welding Power**_____

Faculty involved with the assessment and analysis: ***Rob Thoresen***

Course-to-program outcome mapping document** is completed Yes__X___ No_____

1	Student Learning Outcome Statements □ Program □ Course	***SLO 1:*** **(modified WELD 176)** Perform basic maintenance on various equipment so as to maintain high productivity. ***SLO2:*** **(modified WELD 176)** *Apply integrated knowledge with incremental skill improvement resulting in functional application of welding techniques.* • Understand primary power requirements, duty cycles and capabilities of various welding power supplies. • Ability to properly set up various welding equipment including electrical arc and gas welding apparatus'. • Read applicable codes , standards, equipment and repair manuals, welding procedures and safety guidelines • Diagnose and repair malfunctions in welding equipment and perform field repair when possible ***SLO 3:*** Use proper hand, measuring and layout tools to fabricate welding projects. ***SLO 4***: Apply academic skills in reading, mathematics, chemistry and physics to the application of welding skills.
2	Assessment Methods Plan (identify assessment instruments, scoring rubrics, SLO mapping diagrams)	***SLO 1:*** **(modified WELD 176)** – Completion of basic service of various machines encountered in the welding environment. Examples include; repair of leads and electrode clamps and work clamps. Clearing of fouled wire feeder machines, replacement of drive rollers tips diffusers and liners. Perform GTAW torch and tungsten maintenance. ****Assessment Tool:*** ***1. Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** ***2. Student Survey***
		SLO2: **(modified WELD 176)** Demonstrative repair completion and documentation of knowledge progress evaluation. ****Assessment Tool:*** ***1. Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** ***2. Student Survey*** ***SLO 3:*** Each welding course will require the completion of shop projects which incorporate the use of common fabrication tools. ****Assessment Tool:*** ***1. Student Survey*** ***SLO 4***: Record of traditional knowledge assessments followed by hands on application to welding procedures in the laboratory to produce weldments and projects which incorporate said objectives and outcomes. ****Assessment Tool:*** ***1. Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** ***2. Student Survey***
3	Assessment Administration Plan (date(s), sample size or selection of course sections, scoring procedures, etc.)	All welding courses have SLO's and assessments identified. The administration of assessments is ongoing each semester. *The attached Program SLO Mapping document reflects which Program SLO's align with various courses and indicates the calendar by which the assessments are administered.*
4	Assessment Results Summary (summarize Data)	**WELD 176 Data Fall 2014 (SLO 2, 3 and 4):** ***Assessment Tool #1 from above (Student performance reflect by grades):*** Overall performance data indicates that 87% of the students achieved above the 70 percentile mark. Specific breakdown included 61% of the population achieving 90 percent or better, 21% achieving 80-90%, 5% achieving 70 – 80% and 13% below 70 percent.
5	Discussion of Assessment Procedure and Results, and Effectiveness of Previous Improvement Plans	There were no previous improvement plans.
6	Recommended Changes & Plans for Implementation of Improvements	No recommended changes at this time.
7	Description or evidence of dialog among course or program-level faculty about assessment plan and results	SLO's, assessments, assessment results and improvement plan are discussed at both the Welding Department meetings and Welding Advisory Committee meetings as evidenced by department meeting agendas/minutes. Letters from Industry.

WELD 270A

Course or Program Assessment Summary

http://academic.cuesta.edu/sloa/docs/Course_and_Program_Assessment_Summary_F_2011.docx

This form can be used to record SLO assessment plans and results for courses or programs. It is recommended that this document be stored on a group drive, or in MyCuesta.

Division: **Engineering Technology** *Program:* **Welding** *Date:* **December 2014** *v. 3 2012*

Courses in program, or course: _____**WELD 270A – Basic Welding**_____

Faculty involved with the assessment and analysis: ***Rob Thoresen***

Course-to-program outcome mapping document** is completed Yes__X___ No_____

1	Student Learning Outcome Statements □ Program □ Course	***SLO2:*** Apply integrated knowledge with incremental skill improvement resulting in functional application of welding techniques. ***SLO 3:*** Use proper hand, measuring and layout tools to fabricate welding projects. ***SLO 4***: Apply academic skills in reading, mathematics, chemistry and physics to the application of welding skills.
2	Assessment Methods Plan (identify assessment instruments, scoring rubrics, SLO mapping diagrams)	***SLO2:*** Demonstrative weld completion and documentation of knowledge progress evaluation. ****Assessment Tool:*** 1. ***Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** 2. ***Student Survey*** ***SLO 3:*** Each welding course will require the completion of shop projects which incorporate the use of common fabrication tools. ****Assessment Tool:*** 1. ***Student Survey*** ***SLO 4***: Record of traditional knowledge assessments followed by hands on application to welding procedures in the laboratory to produce weldments and projects which incorporate said objectives and outcomes. ****Assessment Tool:*** 1. ***Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** 2. ***Student Survey***
3	Assessment Administration Plan (date(s), sample size or selection of course sections, scoring procedures, etc.)	All welding courses have SLO's and assessments identified. The administration of assessments is ongoing each semester. *The attached Program SLO Mapping document reflects which Program SLO's align with various courses and indicates the calendar by which the assessments are administered.*

4	Assessment Results Summary (summarize Data)	**WELD 270A Data Fall 2014 (SLO 2, 3 and 4):** ***Assessment Tool #1 from above (Student performance reflect by grades):*** Overall performance data indicates that 86% of the students achieved above the 70 percentile mark. Specific breakdown included 37% of the population achieving 90 percent or better, 30% achieving 80-90%, 19% achieving 70 – 80% and 14% below 70 percent. **Assessment Tool #2 from above (Student Survey)** 83% Student s surveyed indicated that some equipment was in need of repair or replacement.
5	Discussion of Assessment Procedure and Results, and Effectiveness of Previous Improvement Plans	No previous plans for improvements.
6	Recommended Changes & Plans for Implementation of Improvements	Upfit/upgrade and/or replace defective equipment in shop.
7	Description or evidence of dialog among course or program-level faculty about assessment plan and results	SLO's, assessments, assessment results and improvement plan are discussed at both the Welding Department meetings and Welding Advisory Committee meetings as evidenced by department meeting agendas/minutes.

WELD 270B

Course or Program Assessment Summary

http://academic.cuesta.edu/sloa/docs/Course_and_Program_Assessment_Summary_F_2011.docx

This form can be used to record SLO assessment plans and results for courses or programs. It is recommended that this document be stored on a group drive, or in MyCuesta.

Division: **Engineering Technology** *Program:* **Welding** *Date:* **May 2014** *v. 3 2012*

Courses in program, or course: _____**WELD 270B – Advanced Welding**_____

Faculty involved with the assessment and analysis: ***Rob Thoresen***

Course-to-program outcome mapping document** is completed Yes__**X**___ No_____

1	Student Learning Outcome Statements □ Program □ Course	***SLO1:*** Demonstrate welding skills sufficient to meet industry journeyman welder standards. ***SLO2:*** Apply integrated knowledge with incremental skill improvement resulting in functional application of welding techniques. ***SLO 3:*** Use proper hand, measuring and layout tools to fabricate welding projects. ***SLO 4***: Apply academic skills in reading, mathematics, chemistry and physics to the application of welding skills.
2	Assessment Methods Plan (identify assessment instruments, scoring rubrics, SLO mapping diagrams)	***SLO1:*** American Welding Society D1.1 Structural Welding Certification test with E7018 electrodes and the FCAW process in the vertical and overhead positions. ****Assessment Tool:*** ***1. Evaluation of completed lab assignment grade data. Student work includes practice certification test plates in preparation for the two Certifications courses we offer. As a result, there will be no actual industry certifications issued at the completion of this course.*** ***2. Student Survey*** ***SLO2:*** Demonstrative weld completion and documentation of knowledge progress evaluation. ****Assessment Tool:*** ***1. Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** ***2. Student Survey*** ***SLO 3:*** Each welding course will require the completion of shop projects which incorporate the use of common fabrication tools. ****Assessment Tool:*** ***1. Student Survey*** ***SLO 4***: Record of traditional knowledge assessments followed by hands on application to welding procedures in the laboratory to produce weldments and projects which incorporate said objectives and outcomes.
		****Assessment Tool:*** ***1. Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** ***2. Student Survey***
3	Assessment Administration Plan (date(s), sample size or selection of course sections, scoring procedures, etc.)	All welding courses have SLO's and assessments identified. The administration of assessments is ongoing each semester. *The attached Program SLO Mapping document reflects which Program SLO's align with various courses and indicates the calendar by which the assessments are administered.*
4	Assessment Results Summary (summarize Data)	**WELD 270B Data Spring 2014 (SLO 1, 2, 3 and 4):** ***Assessment Tool #1 from above (Student performance reflect by grades):*** Overall performance data indicates that 89% of the students achieved above the 70 percentile mark. Specific breakdown included 28% of the population achieving 90 percent or better, 29% achieving 80-90%, 32% achieving 70 – 80% and 11% below 70 percent. ***Assessment Tool #2 from above (Student Survey)*** 79% students surveyed indicated the need for equipment replacement.
5	Discussion of Assessment Procedure and Results, and Effectiveness of Previous Improvement Plans	No previous assessment or improvement plan prior to this update.
6	Recommended Changes & Plans for Implementation of Improvements	1. Replace and upgrade equipment in lab. 2. Hire another instructor in order to expand number of Advanced WELD 270B courses offered
7	Description or evidence of dialog among course or program-level faculty about assessment plan and results	SLO's, assessments, assessment results and improvement plan are discussed at both the Welding Department meetings and Welding Advisory Committee meetings as evidenced by department meeting agendas/minutes.

WELD 270C

Course or Program Assessment Summary

http://academic.cuesta.edu/sloa/docs/Course_and_Program_Assessment_Summary_F_2011.docx

This form can be used to record SLO assessment plans and results for courses or programs. It is recommended that this document be stored on a group drive, or in MyCuesta.

Division: **Engineering Technology** *Program:* **Welding** *Date:* **December 2014** *v. 3 2012*

Courses in program, or course: _____**WELD 270C – GMAW & GTAW Welding**_____

Faculty involved with the assessment and analysis: ***Rob Thoresen***

Course-to-program outcome mapping document** is completed Yes__**X**___ No_____

1	Student Learning Outcome Statements □ Program □ Course	***SLO2:*** Apply integrated knowledge with incremental skill improvement resulting in functional application of welding techniques. ***SLO 3:*** Use proper hand, measuring and layout tools to fabricate welding projects. ***SLO 4***: Apply academic skills in reading, mathematics, chemistry and physics to the application of welding skills.
2	Assessment Methods Plan (identify assessment instruments, scoring rubrics, SLO mapping diagrams)	***SLO2:*** Demonstrative weld completion and documentation of knowledge progress evaluation. ****Assessment Tool:*** ***1. Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** ***2. Student Survey*** ***SLO 3:*** Each welding course will require the completion of shop projects which incorporate the use of common fabrication tools. ****Assessment Tool:*** ***1. Student Survey*** ***SLO 4***: Record of traditional knowledge assessments followed by hands on application to welding procedures in the laboratory to produce weldments and projects which incorporate said objectives and outcomes. ****Assessment Tool:*** ***1. Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** ***2. Student Survey***
3	Assessment Administration Plan (date(s), sample size or selection of course sections, scoring procedures, etc.)	All welding courses have SLO's and assessments identified. The administration of assessments is ongoing each semester. *The attached Program SLO Mapping document reflects which Program SLO's align with various courses and indicates the calendar by which the assessments are administered.*

4	Assessment Results Summary (summarize Data)	**WELD 270C Data Fall 2014 (SLO 2, 3 and 4):** ***Assessment Tool #1 from above (Student performance reflect by grades):*** Overall performance data indicates that 93% of the students achieved above the 70 percentile mark. Specific breakdown included 43% of the population achieving 90 percent or better, 27% achieving 80-90%, 23% achieving 70 – 80% and 7% below 70 percent.
5	Discussion of Assessment Procedure and Results, and Effectiveness of Previous Improvement Plans	No previous improvement plans.
6	Recommended Changes & Plans for Implementation of Improvements	Hire another FT welding instructor in order that more sections of this course could be offered.
7	Description or evidence of dialog among course or program-level faculty about assessment plan and results	SLO's, assessments, assessment results and improvement plan are discussed at both the Welding Department meetings and Welding Advisory Committee meetings as evidenced by department meeting agendas/minutes.

WELD 273

Course or Program Assessment Summary

http://academic.cuesta.edu/sloa/docs/Course_and_Program_Assessment_Summary_F_2011.docx

This form can be used to record SLO assessment plans and results for courses or programs. It is recommended that this document be stored on a group drive, or in MyCuesta.

Division: **Engineering Technology** *Program:* **Welding** *Date:* **December 2014** *v. 3 2012*

Courses in program, or course: _____**WELD 273 – Metallurgy**_____

Faculty involved with the assessment and analysis: ***Rob Thoresen***

Course-to-program outcome mapping document** is completed Yes__**X**___ No_____

1	Student Learning Outcome Statements □ Program □ Course	***SLO 4***: Apply academic skills in reading, mathematics, chemistry and physics to the application of welding skills.
2	Assessment Methods Plan (identify assessment instruments, scoring rubrics, SLO mapping diagrams)	***SLO 4***: Record of traditional knowledge assessments followed by hands on application to welding procedures in the laboratory to produce weldments and projects which incorporate said objectives and outcomes. ******Assessment Tool:* 1. ***Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** 2. ***Student Survey***
3	Assessment Administration Plan (date(s), sample size or selection of course sections, scoring procedures, etc.)	All welding courses have SLO's and assessments identified. The administration of assessments is ongoing each semester. *The attached Program SLO Mapping document reflects which Program SLO's align with various courses and indicates the calendar by which the assessments are administered.*
4	Assessment Results Summary (summarize Data)	**WELD 273 Data:** Two semester's worth of data collected Fall 2013 and Fall 2014. Success rates were high but Student survey strongly indicated a need for lab improvements. Repeated responses addressing the lack of equipment to operate the lab effectively.
5	Discussion of Assessment Procedure and Results, and Effectiveness of Previous Improvement Plans	No previous data or assessment gathered prior to Fall 2013 due to course not being offered. No previous improvements made.
6	Recommended Changes & Plans for Implementation of Improvements	Fall 2013 recommendations included the purchase of various lab equipment so a first purchase acquisition was made in Spring of 2014 and a second is planned for Spring of 2015. A projected total of $60,000.00 will have been invested by end of Spring 2015.
7	Description or evidence of dialog among course or	SLO's, assessments, assessment results and improvement plan are discussed at both the Welding Department meetings and Welding Advisory Committee meetings as evidenced by department meeting

	program-level faculty about assessment plan and results	agendas/minutes.

WELD 277

Course or Program Assessment Summary

http://academic.cuesta.edu/sloa/docs/Course_and_Program_Assessment_Summary_F_2011.docx

This form can be used to record SLO assessment plans and results for courses or programs. It is recommended that this document be stored on a group drive, or in MyCuesta.

Division: **Engineering Technology** *Program:* **Welding** *Date:* **May 2014** *v. 3 2012*

Courses in program, or course: _____**WELD 277 –Welding Fabrication**_____

Faculty involved with the assessment and analysis: ***Rob Thoresen***

Course-to-program outcome mapping document** is completed Yes__**X**___ No_____

1	Student Learning Outcome Statements □ Program □ Course	***SLO1:*** Demonstrate welding skills sufficient to meet industry journeyman welder standards. ***SLO2:*** Apply integrated knowledge with incremental skill improvement resulting in functional application of welding techniques. ***SLO 3:*** Use proper hand, measuring and layout tools to fabricate welding projects. ***SLO 4***: Apply academic skills in reading, mathematics, chemistry and physics to the application of welding skills.
2	Assessment Methods Plan (identify assessment instruments, scoring rubrics, SLO mapping diagrams)	***SLO1:*** ***(Modified for Weld 277)*** Evaluation of completed fabrication projects with industry standard QC approaches as they pertain to overall quality, as well as actual weld quality on all finished projects. ****Assessment Tool:*** 1. ***Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** 2. ***Student Survey*** ***SLO2:*** Demonstrative weld completion and documentation of knowledge progress evaluation. ****Assessment Tool:*** 1. ***Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** 2. ***Student Survey*** ***SLO 3:*** Each welding course will require the completion of shop projects which incorporate the use of common fabrication tools. ****Assessment Tool:*** 1. ***Student Survey*** ***SLO 4***: Record of traditional knowledge assessments followed by hands on application to welding procedures in the laboratory to produce weldments and projects which incorporate said objectives and outcomes.
		****Assessment Tool:*** 1. ***Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** 2. ***Student Survey***
3	Assessment Administration Plan (date(s), sample size or selection of course sections, scoring procedures, etc.)	All welding courses have SLO's and assessments identified. The administration of assessments is ongoing each semester. *The attached Program SLO Mapping document reflects which Program SLO's align with various courses and indicates the calendar by which the assessments are administered.*
4	Assessment Results Summary (summarize Data)	**WELD 277 Data Spring 2014 (SLO 2, 3 and 4):** ***Assessment Tool #1 from above (Student performance reflect by grades):*** Overall performance data indicates that 92% of the students achieved above the 70 percentile mark. Specific breakdown included 40% of the population achieving 90 percent or better, 32% achieving 80-90%, 20% achieving 70 – 80% and 10% below 70 percent.
5	Discussion of Assessment Procedure and Results, and Effectiveness of Previous Improvement Plans	No previous plans for improvement.
6	Recommended Changes & Plans for Implementation of Improvements	No recommended changes at this time.
7	Description or evidence of dialog among course or program-level faculty about assessment plan and results	SLO's, assessments, assessment results and improvement plan are discussed at both the Welding Department meetings and Welding Advisory Committee meetings as evidenced by department meeting agendas/minutes.

WELD 280A

Course or Program Assessment Summary

http://academic.cuesta.edu/sloa/docs/Course_and_Program_Assessment_Summary_F_2011.docx

This form can be used to record SLO assessment plans and results for courses or programs. It is recommended that this document be stored on a group drive, or in MyCuesta.

Division: **Engineering Technology** *Program:* **Welding** *Date:* **December 2014** *v. 3 2012*

Courses in program, or course: _____**WELD 280A – Structural Steel Welding Certification**_____

Faculty involved with the assessment and analysis: **Rob Thoresen**

Course-to-program outcome mapping document** is completed Yes_X____ No_____

1	Student Learning Outcome Statements □ Program □ Course	***SLO 1***: Demonstrate welding skills sufficient to meet industry journeyman welder standards. ***SLO2:*** Apply integrated knowledge with incremental skill improvement resulting in functional application of welding techniques. ***SLO 3:*** Use proper hand, measuring and layout tools to fabricate welding projects. ***SLO 4***: Apply academic skills in reading, mathematics, chemistry and physics to the application of welding skills. ***SLO 5***: Demonstrate work attributes that contribute to personal success and contribute to the goals of the company or organization for which one is employed.
2	Assessment Methods Plan (identify assessment instruments, scoring rubrics, SLO mapping diagrams)	***SLO 1***: American Welding Society D1.1 Structural Welding Certification test with E7018 electrodes and the FCAW process in the vertical and overhead positions. ****Assessment Tool:*** ***1. Tally of the number of successfully completed welding certificates at end of each Semester.*** ***2. Student Survey*** ***SLO2:*** Demonstrative weld completion and documentation of knowledge progress evaluation. ****Assessment Tool:*** ***1. Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** ***2. Student Survey*** ***SLO 3:*** Each welding course will require the completion of shop projects which incorporate the use of common fabrication tools. ****Assessment Tool:*** ***1. Student Survey*** ***SLO 4***: Record of traditional knowledge assessments followed by hands on application to welding
		procedures in the laboratory to produce weldments and projects which incorporate said objectives and outcomes. ****Assessment Tool:*** ***1. Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** ***2. Student Survey*** ***SLO 5***: 90% of all students WELD 270B, WELD 270C, WELD 280 and WELD 277 will submit a career portfolio that meets current industry standards. Professionalism evaluation as part of the grading procedures in each course. All students will successfully complete a safety examination and participate in Job Safety Analysis procedures. ****Assessment Tool:*** ***1. Evaluation of student portfolios by instructors*** ***2. Student Survey***
3	Assessment Administration Plan (date(s), sample size or selection of course sections, scoring procedures, etc.)	All welding courses have SLO's and assessments identified. The administration of assessments is ongoing each semester. *The attached Program SLO Mapping document reflects which Program SLO's align with various courses and indicates the calendar by which the assessments are administered.*
4	Assessment Results Summary (summarize Data)	**WELD 280A Data Fall 2014 (SLO 1, 2, 3, 4 and 5):** ***Assessment Tool #1 from above (Student performance reflect by grades):*** Overall performance data indicates that 75% of the students achieved above the 70 percentile mark. Specific breakdown included 21% of the population achieving 90 percent or better, 21% achieving 80-90%, 33% achieving 70 – 80%, 14% achieving 60-70 percent and 15% below 70 percent.
5	Discussion of Assessment Procedure and Results, and Effectiveness of Previous Improvement Plans	No recommended changes at this time.
6	Recommended Changes & Plans for Implementation of Improvements	No recommended changes at this time.
7	Description or evidence of dialog among course or program-level faculty about assessment plan and results	SLO's, assessments, assessment results and improvement plan are discussed at both the Welding Department meetings and Welding Advisory Committee meetings as evidenced by department meeting agendas/minutes.

WELD 280B

Course or Program Assessment Summary

http://academic.cuesta.edu/sloa/docs/Course_and_Program_Assessment_Summary_F_2011.docx

This form can be used to record SLO assessment plans and results for courses or programs. It is recommended that this document be stored on a group drive, or in MyCuesta.

Division: **Engineering Technology** *Program:* **Welding** *Date:* **May 2014** *v. 3 2012*

Courses in program, or course: _____**WELD 280B – Pipe Welding Certification**_____

Faculty involved with the assessment and analysis: **Rob Thoresen**

Course-to-program outcome mapping document** is completed Yes_**X**____ No_____

1	Student Learning Outcome Statements □ Program □ Course	***SLO 1:*** Demonstrate welding skills sufficient to meet industry journeyman welder standards. ***SLO2:*** Apply integrated knowledge with incremental skill improvement resulting in functional application of welding techniques. ***SLO 3:*** Use proper hand, measuring and layout tools to fabricate welding projects. ***SLO 4***: Apply academic skills in reading, mathematics, chemistry and physics to the application of welding skills. ***SLO 5***: Demonstrate work attributes that contribute to personal success and contribute to the goals of the company or organization for which one is employed.
2	Assessment Methods Plan (identify assessment instruments, scoring rubrics, SLO mapping diagrams)	***SLO 1:*** ASME Section IX Plate and Pipe Tests with E6010/E7018 electrodes, GTAW and FCAW processes. ****Assessment Tool:*** 1. ***Tally of the number of successfully completed welding certificates at end of each Semester.*** 2. ***Student Survey*** ***SLO2:*** Demonstrative weld completion and documentation of knowledge progress evaluation. ****Assessment Tool:*** 1. ***Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** 2. ***Student Survey*** ***SLO 3:*** Each welding course will require the completion of shop projects which incorporate the use of common fabrication tools. ****Assessment Tool:*** 1. ***Student Survey*** ***SLO 4***: Record of traditional knowledge assessments followed by hands on application to welding procedures in the laboratory to produce weldments and projects which incorporate said

		objectives and outcomes. ****Assessment Tool:*** 1. ***Evaluation of completed lab assignment grade data as well as objective written testing data as reflected by course grading.*** 2. ***Student Survey*** ***SLO 5***: 90% of all students WELD 270B, WELD 270C, WELD 280 and WELD 277 will submit a career portfolio that meets current industry standards. Professionalism evaluation as part of the grading procedures in each course. All students will successfully complete a safety examination and participate in Job Safety Analysis procedures. ****Assessment Tool:*** 1. ***Evaluation of student portfolios by instructors*** 2. ***Student Survey***
3	Assessment Administration Plan (date(s), sample size or selection of course sections, scoring procedures, etc.)	All welding courses have SLO's and assessments identified. The administration of assessments is ongoing each semester. *The attached Program SLO Mapping document reflects which Program SLO's align with various courses and indicates the calendar by which the assessments are administered.*
4	Assessment Results Summary (summarize Data)	**WELD 280B Data Spring 2014 (SLO 1, 2, 3, 4 and 5):** ***Assessment Tool #1 from above (Student performance reflect by grades):*** A voice interview was done with the instructor who verified that better than 50% of the enrolled students achieved their certifications in Pipe Welding to ASME Section IX.
5	Discussion of Assessment Procedure and Results, and Effectiveness of Previous Improvement Plans	No previous plans for improvement.
6	Recommended Changes & Plans for Implementation of Improvements	Need to add an introductory Pipe course in order to raise the success rate.
7	Description or evidence of dialog among course or program-level faculty about assessment plan and results	SLO's, assessments, assessment results and improvement plan are discussed at both the Welding Department meetings and Welding Advisory Committee meetings as evidenced by department meeting agendas/minutes.