

Program Level Outcomes

MCC CTE Program: _____

1.0 Students will demonstrate academic competency in performing welding operations.

Expected Student Outcome(Performance Criteria or Indicator)		Overview					
		Curriculum or Courses (Strategies)	Assessment Method(s)	Context for Assessment	Time of data collection	Assessment Coordinator	Evaluation of Results
1.1	Demonstrate ability to research and interpret welding information	WELD 110;130;140; 150;160;230; 240;250;260; 270;290	written assignments; formative and summative tests	WELD 110;130;140; 150;160;230; 240;250;260; 270;290	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee
1.2	Demonstrate ability to apply mathematical formulas to welding situations	WELD 110; 130; 230; 290	written assignments; formative and summative tests	WELD 110; 130; 230; 290	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee
1.3	Demonstrate ability to apply geometrical principles to welding situations	WELD 130; 230	written assignments; formative and summative tests; performance tests	WELD 130; 230	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee
1.4	Demonstrate ability to create reports and training material	WELD 110; 290	written assignments	WELD 110; 290	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee

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2.0 Students will demonstrate professional employability skills as applied to a welding environment.

Expected Student Outcome(Performance Criteria or Indicator)		Overview					
		Curriculum or Courses (Strategies)	Assessment Method(s)	Context for Assessment	Time of data collection	Assessment Coordinator	Evaluation of Results
2.1	Demonstrate professional oral and written communication skills	WELD 110; 230; 290	class assignments	WELD 110; 230; 290	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee
2.2	Exhibit willingness to work and follow directions	WELD 110; 230; 290	instructor observations	WELD 110; 230; 290	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee
2.3	Demonstrate responsibility and dependability by carrying out assigned tasks on time	WELD 230; 290	instructor observations and performance tests	WELD 230; 290	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee
2.4	Demonstrate ability to recognize supervisor and employer expectations	WELD 110; 230; 290	instructor observations and performance tests	WELD 110; 230; 290	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee

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3.0 Students will develop critical thinking and problem-solving skills and adapt these skills to welding applications.

Expected Student Outcome(Performance Criteria or Indicator)		Overview					
		Curriculum or Courses (Strategies)	Assessment Method(s)	Context for Assessment	Time of data collection	Assessment Coordinator	Evaluation of Results
3.1	Demonstrate logical thinking skills required in trouble shooting welding equipment	WELD 121;141;151; 161;231;241; 251;261;271	instructor observations and performance tests	WELD 121;141;151; 161;231;241; 251;261;271	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee
3.2	Demonstrate logical thinking skills required for the production and inspection of code welds	WELD 121;141;151; 161;241;251; 261;271	performance tests	WELD 121;141;151; 161;241;251; 261;271	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee
3.3	Demonstrate logical thinking skills required in layout and fabrication problem-solving	WELD 230; 231; 290	written tests and performance tests	WELD 230; 231; 290	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee

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4.0 The program will graduate individuals that meet or exceed the American Welding Society's guidelines for entry-level employees in welding techn

Expected Student Outcome(Performance Criteria or Indicator)		Overview					
		Curriculum or Courses (Strategies)	Assessment Method(s)	Context for Assessment	Time of data collection	Assessment Coordinator	Evaluation of Results
4.1	Demonstrate safe practices in the welding environment	WELD 121;141;151; 161;231;241; 251;261;271	instructor observations	WELD 121;141;151; 161;231;241; 251;261;271	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee
4.2	Demonstrate an understanding of welding and cutting principles of operation	WELD 121;141;151; 161;231;241; 251;261;271	performance tests	WELD 121;141;151; 161;231;241; 251;261;271	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee
4.3	Apply welding and cutting skills to specific codes	WELD 121;141;151; 161;241;251; 261;271	performance tests	WELD 121;141;151; 161;241;251; 261;271	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee
4.4	Demonstrate ability to apply welding, cutting, and print reading skills to layout and fabrication	WELD 230; 231	performance tests	WELD 230; 231	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee

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5.0 Students will demonstrate supervisory and managerial skills as applied to the welding industry.

Expected Student Outcome(Performance Criteria or Indicator)		Overview					
		Curriculum or Courses (Strategies)	Assessment Method(s)	Context for Assessment	Time of data collection	Assessment Coordinator	Evaluation of Results
5.1	Demonstrate advanced level of skill in welding and cutting processes	WELD 231	performance tests	WELD 231	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee
5.2	Demonstrate competence in layout and fabrication tasks	WELD 230; 231; 290	performance tests	WELD 230; 231; 290	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee
5.3	Demonstrate ability to write and use training material for the improvement of other's skills	WELD 290	written tests and performance tests	WELD 290	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee
5.4	Demonstrate the ability to effectively lead other's in welding environment situations	WELD 231; 290	performance tests	WELD 231; 290	Fall and Spring Semesters	WELD Coordinator	WELD Coordinator, WELD instructors, and advisory committee

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1.0 Students will demonstrate academ

Expected Student Outcome(Performance Criteria or Indicator)		Assessment					Actions
		Courses Assessed	Assessment Method(s)	Time of data collection	Assessment Coordinator	Evaluation of Results	
1.1	Demonstrate ability to research and interpret welding information						
1.2	Demonstrate ability to apply mathematical formulas to welding situations						
1.3	Demonstrate ability to apply geometrical principles to welding situations						
1.4	Demonstrate ability to create reports and training material						

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2.0 Students will demonstrate professi

Expected Student Outcome(Performance Criteria or Indicator)		Assessment					Actions
		Courses Assessed	Assessment Method(s)	Time of data collection	Assessment Coordinator	Evaluation of Results	
2.1	Demonstrate professional oral and written communication skills						
2.2	Exhibit willingness to work and follow directions						
2.3	Demonstrate responsibility and dependability by carrying out assigned tasks on time						
2.4	Demonstrate ability to recognize supervisor and employer expectations						

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3.0 Students will develop critical think

Expected Student Outcome(Performance Criteria or Indicator)		Assessment					Actions
		Courses Assessed	Assessment Method(s)	Time of data collection	Assessment Coordinator	Evaluation of Results	
3.1	Demonstrate logical thinking skills required in trouble shooting welding equipment						
3.2	Demonstrate logical thinking skills required for the production and inspection of code welds						
3.3	Demonstrate logical thinking skills required in layout and fabrication problem-solving						

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4.0 The program will graduate individuality.

Expected Student Outcome(Performance Criteria or Indicator)		Assessment					Actions
		Courses Assessed	Assessment Method(s)	Time of data collection	Assessment Coordinator	Evaluation of Results	
4.1	Demonstrate safe practices in the welding environment						
4.2	Demonstrate an understanding of welding and cutting principles of operation						
4.3	Apply welding and cutting skills to specific codes						
4.4	Demonstrate ability to apply welding, cutting, and print reading skills to layout and fabrication						

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5.0 Students will demonstrate supervi

Expected Student Outcome(Performance Criteria or Indicator)		Assessment					Actions
		Courses Assessed	Assessment Method(s)	Time of data collection	Assessment Coordinator	Evaluation of Results	
5.1	Demonstrate advanced level of skill in welding and cutting processes						
5.2	Demonstrate competence in layout and fabrication tasks						
5.3	Demonstrate ability to write and use training material for the improvement of other's skills						
5.4	Demonstrate the ability to effectively lead other's in welding environment situations						