

COURSE SLO ASSESSMENT 4-YEAR TIMELINE

Unit Name	Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
El Camino: Course SLOs (IND) - Welding	2013-14 (Fall 2013)	ECC: WELD 28	American Welding Society (AWS) D1.1 Certification Test Preparation	SLO #1 Preparing for Certification Exams	Students will be able to locate and use charts, index and table of contents to answer open book questions to prepare for the exam.
	2014-15 (Fall 2014)	ECC: WELD 45	Structural Fabrication	SLO #1 Safe Setup & Operation	Students will be able to demonstrate the safe set up and use of various welding and cutting apparatus.
	2014-15 (Fall 2014)	ECC: WELD 45	Structural Fabrication	SLO #2 Job Skills	Students will be prepared to demonstrate job skills required for fabrication layout
	2014-15 (Spring 2015)	ECC: WELD 10A	Introduction to Shielded Metal Arc Welding (SMAW)	SLO #1	Students will be able to demonstrate the safe set up and operation of welding equipment using all applicable personal protective equipment.
	2014-15 (Spring 2015)	ECC: WELD 10B	Intermediate Shielded Arc Metal Welding (SMAW)	SLO #1	Welding students will produce quality welds utilizing various welding techniques.
	2014-15 (Spring 2015)	ECC: WELD 10C	Advanced Certification and Career Preparation Lab	SLO #1	Student will perform destructive test on a qualification plate exam(guided bend tests).
	2014-15 (Spring 2015)	ECC: WELD 28	American Welding Society (AWS) D1.1 Certification Test Preparation	SLO #1 Preparing for Certification Exams	Students will be able to locate and use charts, index and table of contents to answer open book questions to prepare for the exam.
	2014-15 (Spring 2015)	ECC: WELD 40A	Gas Tungsten Arc Welding (GTAW), Gas Metal Arc Welding (GMAW)	SLO #1 TIG Weld Concepts	Students will be able to express a basic knowledge of TIG welding concepts.
	2014-15 (Spring 2015)	ECC: WELD 40B	Intermediate Gas Tungsten Arc Welding (GTAW)	SLO #1	Safely set up weldment and GTAW equipment.
	2014-15 (Summer 2015)	ECC: WELD 15	Basic Weldng for Allied Fields	SLO #1 Welding Concepts	Students will be able to demonstrate basic knowledge of welding concepts.
	2015-16 (Fall 2015)	ECC: WELD 23	Advanced Arc Welding Specialty Lab	SLO #1 3G and 4G Positions	Welding students will produce quality weld in the 3G And 4G positions
	2015-16 (Fall 2015)	ECC: WELD 40C	Advanced Gas Tungsten Arc Welding (GTAW)	SLO #1	Apply the proper safety procedures and precautions required when working with GTAW.
	2015-16 (Fall 2015)	ECC: WELD 45	Structural Fabrication	SLO #3 Measuring Tools	Students will be able to correctly use measuring tools necessary for fabrication projects.
	2015-16 (Spring 2016)	ECC: WELD 10A	Introduction to Shielded Metal Arc Welding (SMAW)	SLO #2	Safe operation of manual and semi-automatic base metal cutting tools.
	2015-16 (Spring 2016)	ECC: WELD 10B	Intermediate Shielded Arc Metal Welding (SMAW)	SLO #2	Students will understand Blueprint symbols and their relationship to the weldment.
2015-16 (Spring 2016)	ECC: WELD 10C	Advanced Certification and Career Preparation Lab	SLO #2	Students will have working knowledge of manual and semi-automatic tooling used in industry.	
2015-16 (Spring 2016)	ECC: WELD 15	Basic Weldng for Allied Fields	SLO #2 Safe Setup & Operation	Students will be capable of the safe set up and operation of welding equipment.	

Unit Name	Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
	2015-16 (Spring 2016)	ECC: WELD 28	American Welding Society (AWS) D1.1 Certification Test Preparation	SLO #2 D1.1 Written Exam Prep	At the completion of this course, students will be prepared to take the written exam for their LA City D1.1 Structural Steel certification.
	2015-16 (Spring 2016)	ECC: WELD 40B	Intermediate Gas Tungsten Arc Welding (GTAW)	SLO #2	Correctly adjust welding parameters to produce quality weldments in and out of position.
	2015-16 (Spring 2016)	ECC: WELD 40C	Advanced Gas Tungsten Arc Welding (GTAW)	SLO #2	Use the appropriate equipment and materials to develop the welds and weld joints illustrated on a job sheet.
	2016-17 (Fall 2016)	ECC: WELD 45	Structural Fabrication	SLO #1 Safe Setup & Operation	Students will be able to demonstrate the safe set up and use of various welding and cutting apparatus.
	2016-17 (Spring 2017)	ECC: WELD 10A	Introduction to Shielded Metal Arc Welding (SMAW)	SLO #3	Students will have a basic understanding how heat affects their weldment.
	2016-17 (Spring 2017)	ECC: WELD 10B	Intermediate Shielded Arc Metal Welding (SMAW)	SLO #3	Student will exhibit knowledge in electrode identification, weldability of metals, joint design and power sources.
	2016-17 (Spring 2017)	ECC: WELD 10C	Advanced Certification and Career Preparation Lab	SLO #3	Student will safely operate equipment and exhibit shop safety throughout course.
	2016-17 (Spring 2017)	ECC: WELD 23	Advanced Arc Welding Specialty Lab	SLO #2 Joint Fit-Up	Students will have a developed understanding of the importance of joint fit up
	2016-17 (Spring 2017)	ECC: WELD 23	Advanced Arc Welding Specialty Lab	SLO #3 D1.1 Certification	At the completion of this course, students will be prepared to take the practical exam for their D1.1 certification.
	2016-17 (Spring 2017)	ECC: WELD 28	American Welding Society (AWS) D1.1 Certification Test Preparation	SLO #3 Welding Procedure Specifications	Capability to process Welding Procedure Specifications (WPS), which provides direction to the welder or welding operators for making sound and quality production welds as per the code
	2016-17 (Spring 2017)	ECC: WELD 40A	Gas Tungsten Arc Welding (GTAW), Gas Metal Arc Welding (GMAW)	SLO #2 GTAW Gases	Students will be able to demonstrate a knowledge of the gases used for the GTAW processes.
	2016-17 (Spring 2017)	ECC: WELD 40A	Gas Tungsten Arc Welding (GTAW), Gas Metal Arc Welding (GMAW)	SLO #3 Constant Current Welding	Students will be able to correctly set up and use a constant current welding machine
	2016-17 (Spring 2017)	ECC: WELD 40C	Advanced Gas Tungsten Arc Welding (GTAW)	SLO #3	Produce a quality "out of position" weldment and adjust his welding parameters accordingly.
	2017-18 (Fall 2017)	ECC: WELD 40B	Intermediate Gas Tungsten Arc Welding (GTAW)	SLO #3	Produce GTAW weldment according to administered blueprint.
	2017-18 (Fall 2017)	ECC: WELD 45	Structural Fabrication	SLO #2 Job Skills	Students will be prepared to demonstrate job skills required for fabrication layout
	2017-18 (Spring 2018)	ECC: WELD 15	Basic Weldng for Allied Fields	SLO #3 Welding Process Selection	Capability to choose an electrode or process that suits the metal thickness, joint fit up, and alloy composition.
	2017-18 (Spring 2018)	ECC: WELD 40C	Advanced Gas Tungsten Arc Welding (GTAW)	SLO #1	Apply the proper safety procedures and precautions required when working with GTAW.
	2018-19 (Spring 2019)	ECC: WELD 10A	Introduction to Shielded Metal Arc Welding	SLO #1	Students will be able to demonstrate the safe set up and operation of welding equipment using all applicable personal protective

Unit Name	Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
	2018-19 (Spring 2019)	ECC: WELD 10A	(SMAW)	SLO #1	equipment.
	2018-19 (Spring 2019)	ECC: WELD 10B	Intermediate Shielded Arc Metal Welding (SMAW)	SLO #1	Welding students will produce quality welds utilizing various welding techniques.
	2018-19 (Spring 2019)	ECC: WELD 10C	Advanced Certification and Career Preparation Lab	SLO #1	Student will perform destructive test on a qualification plate exam(guided bend tests).
	2018-19 (Spring 2019)	ECC: WELD 15	Basic Weldng for Allied Fields	SLO #1 Welding Concepts	Students will be able to demonstrate basic knowledge of welding concepts.
	2018-19 (Spring 2019)	ECC: WELD 23	Advanced Arc Welding Specialty Lab	SLO #1 3G and 4G Positions	Welding students will produce quality weld in the 3G And 4G positions
	2018-19 (Spring 2019)	ECC: WELD 28	American Welding Society (AWS) D1.1 Certification Test Preparation	SLO #1 Preparing for Certification Exams	Students will be able to locate and use charts, index and table of contents to answer open book questions to prepare for the exam.
	2018-19 (Spring 2019)	ECC: WELD 40A	Gas Tungsten Arc Welding (GTAW), Gas Metal Arc Welding (GMAW)	SLO #1 TIG Weld Concepts	Students will be able to express a basic knowledge of TIG welding concepts.
	2018-19 (Spring 2019)	ECC: WELD 40B	Intermediate Gas Tungsten Arc Welding (GTAW)	SLO #1	Safely set up weldment and GTAW equipment.
	2019-20 (Fall 2019)	ECC: WELD 45	Structural Fabrication	SLO #3 Measuring Tools	Students will be able to correctly use measuring tools necessary for fabrication projects.
	2019-20 (Spring 2020)	ECC: WELD 10A	Introduction to Shielded Metal Arc Welding (SMAW)	SLO #2	Safe operation of manual and semi-automatic base metal cutting tools.
	2019-20 (Spring 2020)	ECC: WELD 10B	Intermediate Shielded Arc Metal Welding (SMAW)	SLO #2	Students will understand Blueprint symbols and their relationship to the weldment.
	2019-20 (Spring 2020)	ECC: WELD 10C	Advanced Certification and Career Preparation Lab	SLO #2	Students will have working knowledge of manual and semi-automatic tooling used in industry.
	2019-20 (Spring 2020)	ECC: WELD 15	Basic Weldng for Allied Fields	SLO #2 Safe Setup & Operation	Students will be capable of the safe set up and operation of welding equipment.
	2019-20 (Spring 2020)	ECC: WELD 23	Advanced Arc Welding Specialty Lab	SLO #2 Joint Fit-Up	Students will have a developed understanding of the importance of joint fit up
	2019-20 (Spring 2020)	ECC: WELD 28	American Welding Society (AWS) D1.1 Certification Test Preparation	SLO #2 D1.1 Written Exam Prep	At the completion of this course, students will be prepared to take the written exam for their LA City D1.1 Structural Steel certification.
	2019-20 (Spring 2020)	ECC: WELD 40A	Gas Tungsten Arc Welding (GTAW), Gas Metal Arc Welding (GMAW)	SLO #2 GTAW Gases	Students will be able to demonstrate a knowledge of the gases used for the GTAW processes.
	2019-20 (Spring 2020)	ECC: WELD 40C	Advanced Gas Tungsten Arc Welding (GTAW)	SLO #2	Use the appropriate equipment and materials to develop the welds and weld joints illustrated on a job sheet.
	2020-21 (Fall 2020)	ECC: WELD 40B	Intermediate Gas Tungsten Arc Welding (GTAW)	SLO #2	Correctly adjust welding parameters to produce quality weldments in and out of position.

Unit Name	Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
	2020-21 (Fall 2020)	ECC: WELD 45	Structural Fabrication	SLO #1 Safe Setup & Operation	Students will be able to demonstrate the safe set up and use of various welding and cutting apparatus.