

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement – AWS Entry Level Welder emphasis provides students with the skills and knowledge necessary for successful entry level employment in welding and related metal working industries.

Extensive classroom and laboratory instruction focuses on the most widely used welding processes in industry including SMAW (Stick), GMAW (Mig), FCAW (Flux core) and GTAW (Tig). Additionally, students will receive instruction in Oxy/Fuel, Plasma and Carbon Arc-Air cutting processes and blueprint reading and interpretation.

Upon completion of the Certificate of Achievement requirements, students may certify as AWS Entry Level Welders.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate proper safety practices during welding operations.
- Read and interpret blueprints.
- Cut and prepare parts from blueprints and drawings.
- Set-up, maintain and perform minor repairs to welding and associated equipment.
- Perform satisfactory welds in all positions.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 100, 101, 107, 113	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
ALS 101 College Success	3	_____
MATH 116 Technical Mathematics	3	_____
MT 102B Fundamentals of Electricity	4	_____
WELD 131B Blueprint Reading, Layout, and Sketching	3	_____
WELD 132B Oxy/Fuel, Plasma and Carbon Arc-Air Cutting Operations	2	_____
WELD 133B SMAW (Stick)	4	_____
WELD 134B GTAW (Tig)	4	_____
WELD 135B GMAW (Mig)	2	_____
WELD 137B FCAW (Flux Core)	2	_____

Computation included in MATH 116
Human Relations included in ALS 101

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. WELDENT-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

Guided Pathway 2014-2015
COA WELDING TECHNOLOGY
 ENTRY LEVEL WELDER
 30 Credits

First Semester Fall		<i>Credits</i>	<i>Completed</i>
ALS 101	College Success	3	_____
MT 102	Fundamentals of Electricity	4	_____
Total		7	_____

Second Semester		<i>Credits</i>		<i>Completed</i>
Communications: ENG 100, 101, 107, or 113		3		_____
	Prerequisite: English Placement Test			_____
WELD 131B	Blueprint Reading, Layout and Sketching	3	Spring Only	_____
WELD 132B	Oxy/Fuel, Plasma and Carbon Arc-Air Cutting Operations	2	Spring Only	_____
Total		8		_____

Third Semester		<i>Credits</i>		<i>Completed</i>
MATH 116	Technical Mathematics	3		_____
	Prerequisite: Math Placement Exam			_____
WELD 133B	SMAW (Stick)	4		_____
WELD 135B	GMAW (Mig)	2		_____
Total		9		_____

Fourth Semester		<i>Credits</i>		<i>Completed</i>
WELD 134B	GTAW (Tig)	4		_____
WELD 137B	FCAW (Flux Core)	2		_____
Total		6		_____