

WELDING TECHNOLOGY (WDT)

(Wallace and Sparks Campuses)

The purpose of this program is to prepare students for employment in the Welding industry as plate and/or pipe welders. Certification is encouraged and performed in accordance with American Welding Society and D1.1 Structural Steel Welding Code. The program includes a wide variety of welding experiences for plate and pipe welders. Students can exit the program after two semesters with a certificate in plate welding or complete both plate and pipe welding as listed below and receive a program certificate as a combination welder. NOTE: At various points during the program, students who qualify, may test for a variety of AWS Certifications. Students must purchase their own books and tools. Admission is conditional and depends on the student's ability to perform the essential functions identified for this program. A high school diploma or GED® is not required; however, students are required to demonstrate college and career readiness. (See *Admission to Courses Not Creditable Toward an Associate Degree* in the *Admissions Policies and Procedures* section of this catalog.) Reasonable accommodations are considered.

NOTE: Students enrolled in the Welding Technology program are strongly encouraged to take third party industry recognized credentialing tests as part of the program requirements. Credentialing tests will be conducted onsite and students will be responsible for the fees associated with the credentialing tests.

CERTIFICATE CURRICULUM

<i>Course</i>		<i>Credit Hours</i>
Area I: Written and Oral Communications		6
COM 103	Introductory/Technical English II	3
SPC 103	Oral Communication Skills	3
Area III: Natural Sciences, Mathematics, and Computer Science		6
DPT 103	Introductory/Computer Skills II	3
MAH 101	Vocational/Technical Mathematics I	3
Area V: Career and Technical Courses		46
<i>Required Orientation Courses</i>		
ORI 101	Orientation to College	1
<i>Required Field of Concentration Courses</i>		
WKO 110	NCCER Core	3
WDT 108	SMAW Fillet/OFC	3
WDT 109	SMAW Fillet/PAC/CAC	3
WDT 110	Industrial Blueprint Reading	3
WDT 115	GTAW Carbon Pipe	3
WDT 119	Gas Metal Arc/Flux Cored Arc Welding	3
WDT 120	SMAW Groove	3
WDT 122	SMAW Fillet/OFC Lab	3
WDT 123	SMAW Fillet/PAC/CAC Lab	3
WDT 124	Gas Metal Arc/Flux Cored Welding Lab	3
WDT 125	SMAW Groove Lab	3
WDT 155	GTAW Carbon Pipe Lab	3
WDT 217	SMAW Carbon Pipe	3
WDT 257	SMAW Carbon Pipe Lab	3
WKO 106	Workplace Skills	3
Total Field of Concentration Credits		45
Total Credits for Certificate		58

SHORT CERTIFICATE CURRICULUM

<i>Course</i>		<i>Credit Hours</i>
Area V: Career and Technical Courses		
<i>Required Field of Concentration Courses</i>		
WKO 110	NCCER Core	3
WDT 108	SMAW Fillet/OFC	3
WDT 109	SMAW Fillet/PAC/CAC	3
WDT 119	Gas Metal Arc/Flux Cored Arc Welding	3
WDT 122	SMAW Fillet/OFC Lab	3
WDT 123	SMAW Fillet/PAC/CAC Lab	3
WDT 124	Gas Metal Arc/Flux Cored Welding Lab	3
WKO 106	Workplace Skills	3
Total Credits for Short Certificate		24

Welding Technology Short Certificate Suggested Course Sequence

<i>FIRST SEMESTER</i>	<i>SECOND SEMESTER</i>
WDT 108	WDT 119
WDT 109	WDT 124
WDT 122	WKO 110
WDT 123	WKO 106

ADVANCED SHORT CERTIFICATE CURRICULUMS

ADVANCED PIPE WELDING (WDP) (Stainless Steel Concentration)

NOTE: Admission by instructor approval.

<i>Course</i>		<i>Credit Hours</i>
Area V: Career and Technical Courses		18
<i>Required Field of Concentration Courses</i>		
WDT 116	GTAW Stainless Pipe	3
WDT 156	GTAW Stainless Pipe Lab	3
WDT 157	Consumable Welding Process	3
WDT 158	Consumable Welding Process Lab	3
WDT 115	GTAW Carbon Pipe	3
WDT 155	GTAW Carbon Pipe Lab	3
Total Credits for Short Certificate		18

ADVANCED MIG WELDING (WDM) (Aluminum Concentration)

NOTE: Admission by instructor approval.

<i>Course</i>		<i>Credit Hours</i>
Area V: Career and Technical Courses		16
<i>Required Field of Concentration Courses</i>		
WDT 119	Gas Metal/Flux Cored Arc Welding	3
WDT 124	Gas Metal Arc/Flux Cored Arc Welding Lab	3
WDT 162	Consumable Welding Applications	3
WDT 163	Consumable Welding Applications Lab	3
WDT 115	GTAW Carbon Pipe	3
WDT 228	Gas Tungsten Arc Welding	3
Total Credits for Short Certificate		18

Advanced Pipe Welding (Stainless Steel Concentration)

Short Certificate

Suggested Course Sequence

FIRST SEMESTER	SECOND SEMESTER
WDT 115	WDT 157
WDT 116	WDT 158
WDT 155	
WDT 156	

Advanced Mig Welding (Aluminum Concentration)

Short Certificate

Suggested Course Sequence

FIRST SEMESTER	SECOND SEMESTER
WDT 115	WDT 162
WDT 119	WDT 163
WDT 124	
WDT 228	

Welding Technology

Certificate

Suggested Course Sequence

FIRST SEMESTER	SECOND SEMESTER	THIRD SEMESTER
MAH 101	WKO 110	DPT 103
ORI 101	COM 103	WDT 110
WDT 108	WDT 119	WDT 155
WDT 109	WDT 120	
WDT 122	WDT 124	
WDT 123	WDT 125	

FOURTH SEMESTER

SPC 103
WDT 115
WDT 217
WDT 257
WKO 106