

# Welding: Pipe Welding Standard Certificate

Welding is the process of joining together two pieces of metal so that bonding takes place at their original boundary surfaces. Welding is used in the construction and repair of many thousands of manufactured products. The Welding Technology (WDT) Program at Wallace Community College Selma provides students with the technical skills necessary to enter the construction, manufacturing, and repair industries. WDT students attain hands-on experience in a variety of welding processes used by various industries in the fabrication and repair of steel components. Through practical exercises which are designed to be as realistic as possible and representative of actual world-of-work experiences, WDT students learn to use much different cutting and joining processes. The program offers a certificate in Structural Welding as well as a more specialized certificate in Pipe Welding which permits a student to apply for more competitive pipe welding positions found in heavy industries such as refineries and off-shore drilling rigs.

## NOTES

- \* Note: Curriculum display is subject to change; however, courses will be offered to meet degree requirements.
- \* Student competence in the basic use of computers is accomplished within ENG 100.
- \* Student competence in Oral Communications is accomplished within discipline-specific courses.
- \* All students entering the Pipe Welding Certificate must have passed or be able to pass the 3G & 4G plate test with 6010 root, no backing and 7018 filler on 3/8 inch plate in accordance with the American Welding Society D1.1 Code.

**Program:** [Welding Technology](#)

**Type:** Standard Certificate

## Area I: Written Composition

Item #	Title	Credits
ENG 100	Vocational Technical English I	3

## Area III: Natural Sciences and Mathematics

Item #	Title	Credits
MAH 101	Introductory Mathematics I	3

## Area V: Additional General Education Courses, Major Courses and Electives

<b>Item #</b>	<b>Title</b>	<b>Credits</b>
WDT 108	SMAW Fillet OFC	3
WDT 109	SMAW Fillet PAC/CAC	3
WDT 110	Industrial Blue Print Reading	3
WDT 115	GTAW Carbon Pipe Theory (Elective)	3
WDT 116	GTAW Stainless Pipe Theory	3
WDT 119	Gas Metal Arc/Flux Cored Arc Welding Theory	3
WDT 120	SMAW Grooves Theory	3
WDT 122	SMAW Fillet OFC Lab	3
WDT 123	SMAW Fillet PAC/CAC Lab	3
WDT 124	Gas Metal Arc/Flux Cored Arc Welding Lab	3
WDT 125	Shielded Metal Arc Welding Grooves Lab	3
WDT 155	GTAW Carbon Pipe Lab (Elective)	3
WDT 156	GTAW Stainless Pipe Lab	3
WDT 217	SMAW Carbon Pipe Theory (Elective)	3
WDT 257	SMAW Carbon Pipe Lab	3
WDT 258	Certification Lab (Elective)	3
	<b>Total credits:</b>	<b>54</b>