

# Welding Shielded Metal Arc

**Certificate in Applied Science**

**Credit Requirements: 25 Semester Credit Hours**  
**Summer Semester Start**

This certificate teaches beginning and intermediate welding students the principles and practices of shielded metal arc welding in preparation for entry into the welding fields of construction, fabrication and maintenance. Admission into this program requires qualifying scores on SAT, ACT or TTC's placement test. High school graduation is not required if you are at least 18 years old.

Students can enter the certificate in any semester.

**Recommended Sequence of Courses**

**First Semester – Summer**

WLD 101	Cutting Processes	1
WLD 111	Arc Welding I	4
		<b>Total 5</b>

**Second Semester – Fall**

EGT 114	Welding Print Basics	2
WLD 110	Welding Safety and Health	1
WLD 113	Arc Welding II	4
WLD 114	Advanced Arc Welding	1
WLD 201	Welding Metallurgy	2
		<b>Total 10</b>

**Third Semester – Spring**

EGT 117	Welding Print Principles	2
WLD 145	Field Welding	2
WLD 141	Weld Quality	2
WLD 170	Qualification Welding	4
		<b>Total 10</b>

# Welding: Shielded Metal Arc Advanced

**Certificate in Applied Science**

**Credit Requirements: 15 Semester Credit Hours**  
**Spring Semester Start**

This certificate teaches advanced welding students pipe welding skills using the shielded metal arc welding process. Requirements for entry into this program are: prerequisite courses WLD 170 and WLD 145; current welder qualification documentation of shielded metal arc welding in 3G and 4G positions; or skills evaluation by the

welding instructor at TTC. Admission into this program requires qualifying scores on SAT, ACT or TTC's placement test. High school graduation is not required if you are at least 18 years old.

Students can enter the certificate in Fall or Spring semesters.

**Recommended Sequence of Courses**

**First Semester – Spring**

WLD 225	Arc Welding Pipe I	4
WLD 226	Arc Welding Pipe II	1
WLD 227	Arc Welding Pipe III	1
		<b>Total 6</b>

**Second Semester – Fall**

EGT 114	Welding Print Basics	2
WLD 110	Welding Safety and Health	1
WLD 201	Welding Metallurgy	2
		<b>Total 5</b>

**Third Semester – Spring**

EGT 117	Welding Print Principles	2
WLD 141	Weld Quality	2
		<b>Total 4</b>

# Welding: Shielded Metal Arc Advanced

**Certificate in Applied Science**

**Credit Requirements: 15 Semester Credit Hours**  
**Fall Semester Start**

This certificate teaches advanced welding students pipe welding skills using the shielded metal arc welding process. Requirements for entry into this program are: prerequisite courses WLD 170 and WLD 145; current welder qualification documentation of shielded metal arc welding in 3G and 4G positions; or skills evaluation by the welding instructor at TTC. Admission into this program requires qualifying scores on SAT, ACT or TTC's placement test. High school graduation is not required if you are at least 18 years old.

Students can enter the certificate in Fall or Spring semesters.

**Recommended Sequence of Courses**

**First Semester – Fall**

WLD 225	Arc Welding Pipe I	4
WLD 226	Arc Welding Pipe II	1
WLD 227	Arc Welding Pipe III	1
		<b>Total 6</b>