

Welding Gas Tungsten Arc

Certificate in Applied Science

Credit Requirements: 24 Semester Credit Hours

Summer Term Start

This certificate teaches beginning and intermediate welding students the principles and practices of gas tungsten arc welding carbon steel, aluminum and stainless steel sheet metal, plate and tubing. 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 program in any semester.

Recommended Sequence of Courses

First Semester – Summer

| | | | |
|---------|----------------------------------|---|----------------|
| WLD 132 | Inert Gas Welding Ferrous | 4 | |
| WLD 133 | Inert Gas Welding Ferrous Tubing | 1 | |
| | | | Total 5 |

Second Semester – Fall

| | | | |
|---------|---|---|-----------------|
| EGT 114 | Welding Print Basics | 2 | |
| WLD 110 | Welding Safety and Health | 1 | |
| WLD 152 | Tungsten Arc Welding | 4 | |
| WLD 153 | Tungsten Arc Welding Stainless Steel Tubing | 1 | |
| WLD 201 | Welding Metallurgy | 2 | |
| | | | Total 10 |

Third Semester – Spring

| | | | |
|---------|-------------------------------------|---|----------------|
| EGT 117 | Welding Print Principles | 2 | |
| WLD 135 | Inert Gas Welding of Aluminum | 4 | |
| WLD 137 | Inert Gas Welding Aluminum Tubing I | | |
| WLD 141 | Weld Quality | 2 | |
| | | | Total 9 |

Welding Gas Tungsten 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 gas tungsten arc welding process.

Requirements for entry into this program are prerequisite courses WLD 133, WLD 137 and WLD 153; current welder qualification documentation of gas tungsten arc welding in 3G and 4G positions of carbon steel, aluminum and stainless steel; 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.

Recommended Sequence of Courses

First Semester – Fall

| | | | |
|---------|---------------------------|---|----------------|
| WLD 228 | Inert Gas Welding Pipe I | 4 | |
| WLD 229 | Inert Gas Welding Pipe II | 2 | |
| | | | Total 6 |

Second Semester – Spring

| | | | |
|---------|---------------------------|---|----------------|
| WLD 110 | Welding Safety and Health | 1 | |
| WLD 141 | Weld Quality | 2 | |
| | | | Total 3 |

Third Semester – Fall

| | | | |
|---------|----------------------|---|----------------|
| EGT 114 | Welding Print Basics | 2 | |
| WLD 201 | Welding Metallurgy | 2 | |
| | | | Total 4 |

Fourth Semester – Spring

| | | | |
|---------|--------------------------|---|----------------|
| EGT 117 | Welding Print Principles | 2 | |
| | | | Total 2 |

Welding Gas Tungsten 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 gas tungsten arc welding process.

Requirements for entry into this program are prerequisite courses WLD 133, WLD 137 and WLD 153; current welder qualification documentation of gas tungsten arc welding in 3G and 4G positions of carbon steel, aluminum and stainless steel; 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.

Recommended Sequence of Courses

First Semester – Spring

| | | | |
|---------|---------------------------|---|----------------|
| WLD 228 | Inert Gas Welding Pipe I | 4 | |
| WLD 229 | Inert Gas Welding Pipe II | 2 | |
| | | | Total 6 |