

Beginning Welders (No Certification)

Students have two 700-hour choices:

1. Beginning Welding (Stick) 9311 SMAW Basic and 9310 Fundamentals of Welding
2. Beginning Welding (MIG) 9312 GMAW-9313 FCAW Basic and 9310 Fundamentals of Welding

Welders with a Certification

Students have three 600-hour choices:

1. Basic Welding (Stick) 9311 SMAW Plate
2. Basic Welding (MIG) 9312 GMAW Plate - 9313 FCAW Plate
3. Basic Welding (TIG) 9314 GTAW Plate

Welders with a Basic (Plate) Certification

Students have three 600-hour choices:

1. Advanced Welding 9315 SMAW (Stick Pipe) – Prerequisite 9311 SMAW Basic (Plate) Certification
2. Advanced Welding 9316 GMAW-9317 FCAW (MIG Pipe) – Prerequisite 9312 GMAW-9313 FCAW Basic (Plate) Certification
3. Advanced Welding 9318 GTAW (TIG Pipe) – Prerequisite 9314 GTAW Basic (Plate) Certification

Beginning Welders (No Certification)

Beginning Welding

SMAW Basic Certification (700 – Hours) (9311)

1. The SMAW (Shielded Metal Arc Welding) basic course will prepare students for entry level positions in the field of welding. It will cover basic SMAW skills such as: SMAW equipment, different polarities, electrode selection and welding in all positions. With the skills obtained from this course you can work in the mining industry, manufacturing and repair or construction industries.

West Virginia State Certification 9311 SMAW-Plate

Fundamentals of Welding (9310)

The 100-hour Fundamentals of Welding course teaches students welding safety, oxyacetylene safety, and OSHA 10. This course also teaches welding symbols which are used every day in the welding industry. It is required to take this course before entering any other welding course offered.

Certification OSHA 10 Card

GMAW-FCAW Basic Certification (700 – Hours) (9312 and 9313)

2. The GMAW (Gas Metal Arc Welding) – FCAW (Flux Cored Arc Welding) basic course will prepare students for entry level positions in the manufacturing industry. It will cover basic GMAW-FCAW skills such as: equipment, different polarities, layout, and proper shielding gas selection. Students will train with different joint designs in all welding positions. With the skills obtained from this course you can work in the manufacturing and fabrication industry.

West Virginia State Certification 9312 GMAW-Plate

West Virginia State Certification 9313 FCAW-Plate

Fundamentals of Welding (9310)

The 100-hour Fundamentals of Welding course teaches students welding safety, oxyacetylene safety, and OSHA 10. This course also teaches welding symbols which are used every day in the welding industry. It is required to take this course before entering any other welding course offered.

Certification OSHA 10 Card

Welders with a Certification

Basic Welding

SMAW Basic Certification (600-Hours) (9311)

1. The SMAW (Shielded Metal Arc Welding) basic course will prepare students for entry level positions in the field of welding. It will cover basic SMAW skills such as: SMAW equipment, different polarities, electrode selection and welding in all positions. With the skills obtained from this course you can work in the mining industry, manufacturing and repair or construction industries.

West Virginia State Certification 9311 SMAW-Plate

GMAW-FCAW Basic Certification (600-Hours) (9312 and 9313)

2. The GMAW (Gas Metal Arc Welding) – FCAW (Flux Cored Arc Welding) basic course will prepare students for entry level positions in the manufacturing industry. It will cover basic GMAW-FCAW skills such as: equipment, different polarities, layout, and proper shielding gas selection. Students will train with different joint designs in all welding positions. With the skills obtained from this course you can work in the manufacturing and fabrication industry.

West Virginia State Certification 9312 GMAW-Plate

West Virginia State Certification 9313 FCAW-Plate

GTAW Basic Certification (600-Hours) (9314)

3. In the GTAW (TIG) Basic course students will learn on mild steel, stainless steel, and aluminum. It will cover GTAW safety, equipment, polarities, and shielding gas selection. Students will practice on edge, corner, lap, and T-joints before continuing to groove welds. With the skills obtained from this course you can work in the manufacturing and fabrication industry.

West Virginia State Certifications 9314 GTAW-Plate

Welders with a Basic (Plate) Certification

Advanced Welding

SMAW Advanced Certification (600-Hours) (9315) – Prerequisite 9311 SMAW Basic Certification

1. The SMAW Advanced course requires the SMAW Basic. Students will practice on 2” and 6” pipe in the 2G,5G and 6G positions. Students will take tests in the uphill and downhill progression. This course will give students the ability to enter the pipe welding trades.

West Virginia State Certification 9315 SMAW-Pipe

GMAW-FCAW Advanced Certification (600-Hours) (9316 and 9317)

-Prerequisite 9312 GMAW-9313 FCAW Basic Certification

2. The GMAW-FCAW Advanced course. Students will practice GMAW with spray and pulsed spray metal transfers as well as GMAW on aluminum. Students will also learn 2G,5G and 6G pipe using FCAW-G, FCAW-S and GMAW.

West Virginia State Certification 9316 GMAW-Pipe

West Virginia State Certification 9317 FCAW-Pipe

GTAW Advanced Certification (600-Hours) (9318) – Prerequisite 9314 GTAW Basic Certification

3. The GTAW Advanced course requires GTAW Basic and Fundamentals of Welding as a prerequisite to enter the course. This course will train students 2" schedule 80 pipe and 6" schedule 80 pipe with GTAW root and SMAW fill and cap in the 2G, 5G and 6G positions.

West Virginia State Certification 9318 GTAW-Pipe