

Prepare yourself for a professional welding career with one of these

## **WELDING PROGRAMS**

Approved for **VETERANS** and eligible dependents since 1952.

Financial Aid available to those who qualify.

The Pathways Welding Program and Structural Welding Program fall within the scope of the school's ACCSC institutional accreditation.

### **PATHWAYS WELDING PROGRAM**

**40 WEEKS 1400 CLOCK HOURS 140.0 CEU TUITION \$22,600.00**

This sequence of courses is recommended for the student interested in developing the skills and knowledge associated with all position welding on plate, and further enhancing their skills and knowledge through additional training aligned within a career pathway. The Pathways Welding Program is divided into two separate modules. The first module is 24 weeks in length and is comprised of 10 courses that focus on the development of welding fundamentals and skill. During this portion of training students will have the opportunity to complete four welder qualification tests.

While completing module 1, students will complete a series of career advising sessions where they will learn about the different industries associated with welding, current career opportunities and the 5 different pathways program options available to them. During the student's 6th month of training, they will participate in a one-on-one career advising session where they will select their career pathway for Module 2. Each Pathway module is 16 weeks in length and has two additional Welder Qualification Tests integrated into the program. Successful completion of this program gives the student the necessary welding skills required for entry level employment as a welder in their chosen career path.

#### **MODULE 1: 24 Weeks (840 Hours) Core Training**

WTB101	Welding Technology & Blueprint Reading	2 weeks	70 clock hours
OAW101	Oxyacetylene Welding, Cutting & Brazing	2 weeks	70 clock hours
SMA101	Shielded Metal Arc Welding Basic	4 weeks	140 clock hours
SMA201	Shielded Metal Arc Welding Advanced	4 weeks	140 clock hours
GMA101	Gas Metal Arc Welding Basic	2 weeks	70 clock hours
GMA201	Gas Metal Arc Welding Advanced	2 weeks	70 clock hours
GTA102	Gas Tungsten Arc Welding Carbon Steel	2 weeks	70 clock hours
GTA204	Gas Tungsten Arc Welding Stainless Steel	2 weeks	70 clock hours
FCA101	Flux Cored Arc Welding Basic	2 weeks	70 clock hours
WTB201	Advanced Blueprint Reading	2 weeks	70 clock hours

#### **MODULE 2: 16 Weeks (560 Hours) Pathway Option (To Be Determined Through Career Advising)**

##### **Pathway Option 1: Pipe Welder**

**Book Fees: \$905.00**

Students enrolled in the Pipe Welder Pathway will develop welding skills on carbon steel and stainless-steel pipe using the gas tungsten arc welding and shielded metal arc welding processes with uphill travel. During this module students will have the opportunity to test two additional Welder Qualifications aligning with their career pathway including a carbon steel open root 2" pipe welded in the 6G position using the gas tungsten arc welding process and a carbon steel open root 6" pipe welded in the 6G position using the shielded metal arc welding tested in accordance with AWS® D1.1. Accomplished students should have the skills necessary to succeed as an entry level pipe welder.

SMA301	Shielded Metal Arc Welding 6" Pipe 2G & 5G Uphill	4 weeks	140 clock hours
SMA401	Shielded Metal Arc Welding 6" Pipe 6G Uphill	2 weeks	70 clock hours
SMA402	Shielded Metal Arc Welding 2" Pipe 6G Uphill	2 weeks	70 clock hours
GTA202	Gas Tungsten Arc Welding 2" Pipe	4 weeks	140 clock hours
GTA302	Gas Tungsten Arc Welding Stainless Steel 2" Pipe	2 weeks	70 clock hours
GTA203	Gas Tungsten Arc Welding/Shielded Metal Arc Welding Pipe 6G Uphill	2 weeks	70 clock hours

**Pathway Option 2: Pipefitter****Book Fees: \$950.00**

Students enrolled in the Pipefitter Pathway will gain knowledge of piping systems and the piping fabrication process, while developing skills in gas tungsten arc welding and shielded metal arc welding pipe. During this module, students will have the opportunity to test two additional Welder Qualifications aligning with their career pathway including a carbon steel open root 2" Pipe welded in the 6G position using the gas tungsten arc welding process and a carbon steel open root 2" pipe welded in the 6G position using the shielded metal arc welding process tested in accordance with AWS® D1.1. Accomplished students should have the skills necessary to succeed as an entry level pipefitter.

SMA301	Shielded Metal Arc Welding 6" Pipe 2G & 5G Uphill	4 weeks	140 clock hours
GTA202	Gas Tungsten Arc Welding 2" Pipe	4 weeks	140 clock hours
GTA302	Gas Tungsten Arc Welding Stainless Steel 2" Pipe	2 weeks	70 clock hours
SMA402	Shielded Metal Arc Welding 2" Pipe 6G Uphill	2 weeks	70 clock hours
PLF101	Pipe Layout for Fitters & Welders I	2 weeks	70 clock hours
PLF201	Pipe Layout for Fitters & Welders II	2 weeks	70 clock hours

**Pathway Option 3: Welder-Fabricator****Book Fees: \$900.00**

Students enrolled in the Welder-Fabricator Pathway will develop skills and knowledge associated with welding fabrication and manufacturing. Training will focus on advancing the student's knowledge and skills in gas metal arc welding, flux cored arc welding, and gas tungsten arc welding, while also introducing the student to fabrication and pipe layout. During this module students will have the opportunity to test two additional Welder Qualifications aligning with their career pathway including an AWS® B2.1 open root single v-groove weld on carbon steel welded in the 3G position using gas metal arc welding pulsed spray transfer and an AWS® D1.1 single v-groove weld with backing on carbon steel welded in the 3G position using self-shielded flux cored arc welding. Accomplished students should have the skills necessary to succeed as an entry level welder-fabricator and production welder.

GTA202	Gas Tungsten Arc Welding 2" Pipe	4 weeks	140 clock hours
GMA301	Gas Metal Arc Welding Industrial	2 weeks	70 clock hours
GMA202	Gas Metal Arc Welding 6" Pipe	2 weeks	70 clock hours
FCA201	Flux Cored Arc Welding Advanced	2 weeks	70 clock hours
GTA205	Gas Tungsten Arc Welding Aluminum	2 weeks	70 clock hours
FAB101	Introduction to Metal Fabrication	2 weeks	70 clock hours
PLF101	Pipe Layout for Fitters & Welders I	2 weeks	70 clock hours

**Pathway Option 4: Gas Tungsten Arc Welder****Book Fees: \$1,010.00**

Students enrolled in the Gas tungsten Arc Welder Pathway will develop skills and learn techniques commonly applied in gas tungsten arc welding, and complete training focusing of pipe fitting and fabrication. While completing this module, students will have the opportunity to test two additional Welder Qualifications aligning with their career pathway including an AWS® D17.1 open root butt joint on .030" stainless steel welded in the 1G position using the gas tungsten arc welding process and an AWS® D1.1 carbon steel open root 2" pipe welded in the 6G position using gas tungsten arc welding. Accomplished students should have the skills necessary to succeed as an entry level gas tungsten arc welder.

GTA205	Gas Tungsten Arc Welding Aluminum	2 weeks	70 clock hours
GTA301	Gas Tungsten Arc Welding Aerospace	2 weeks	70 clock hours
GTA202	Gas Tungsten Arc Welding 2" Pipe	4 weeks	140 clock hours
GTA302	Gas Tungsten Arc Welding Stainless Steel 2" Pipe	2 weeks	70 clock hours
FAB101	Introduction to Metal Fabrication	2 weeks	70 clock hours
PLF101	Pipe Layout for Fitters & Welders I	2 weeks	70 clock hours
PLF201	Pipe Layout for Fitters & Welders II	2 weeks	70 clock hours

**Pathway Option 5: Downhill Pipe Welder****Book Fees: \$970.00**

Students enrolled in the Downhill Pipe Welder Pathway will develop skills and learn techniques commonly applied to downhill shielded metal arc welding and the welding of gas transmission lines, uphill shielded metal arc welding, and pipe fitting. During this module students will have the opportunity to test two additional Welder Qualifications aligning with their career pathway including an open root carbon steel 6" pipe welded in the 6G position using the shielded metal arc welding process with downhill travel and a 12-on-12 branch connection test in accordance with Standard API®1104 using the shielded metal arc welding process with downhill travel. Accomplished students should have the skills necessary to succeed as an entry level downhill welder.

SMA301	Shielded Metal Arc Welding 6" Pipe 2G & 5G Uphill	4 weeks	140 clock hours
SMA401	Shielded Metal Arc Welding 6" Pipe 6G Uphill	2 weeks	70 clock hours
SMA402	Shielded Metal Arc Welding 2" Pipe 6G Uphill	2 weeks	70 clock hours
SMA403	Shielded Metal Arc Welding 6" Pipe Downhill	2 weeks	70 clock hours
SMA502	Shielded Metal Arc Welding Pipe Downhill, API® 12-on-12 Branch	2 weeks	70 clock hours
PLF101	Pipe Layout for Fitters & Welders I	2 weeks	70 clock hours
PLF201	Pipe Layout for Fitters & Welders II	2 weeks	70 clock hours

**STRUCTURAL WELDING PROGRAM****24 WEEKS 840 CLOCK HOURS 84.0 CEU TUITION \$13,800.00 BOOK FEES \$760.00**

This sequence of courses is recommended for the student interested in the major welding processes for all position welding skills on plate, safety and technical information. The program includes the opportunity to test four Welder Qualifications including shielded metal arc welding, flux cored arc welding, gas metal arc welding, and gas tungsten arc welding. Successful completion of this program gives the student the necessary welding skills required for entry level employment as a structural welder.

WTB101	Welding Technology & Blueprint Reading	2 weeks	70 clock hours
OAW101	Oxyacetylene Welding , Cutting & Brazing	2 weeks	70 clock hours
SMA101	Shielded Metal Arc Welding Basic	4 weeks	140 clock hours
SMA201	Shielded Metal Arc Welding Advanced	4 weeks	140 clock hours
GMA101	Gas Metal Arc Welding Basic	2 weeks	70 clock hours
GMA201	Gas Metal Arc Welding Advanced	2 weeks	70 clock hours
GTA102	Gas Tungsten Arc Welding Carbon Steel	2 weeks	70 clock hours
GTA204	Gas Tungsten Arc Welding Stainless Steel	2 weeks	70 clock hours
FCA101	Flux Cored Arc Welding Basic	2 weeks	70 clock hours
WTB201	Advanced Blueprint Reading	2 weeks	70 clock hours

**Note: Prices are subject to change without notice. The Institute reserves the right to modify the sequence of courses as needed.**