

**SCHOOL OF INDUSTRIAL TECHNOLOGY**

**Welding Technology Diploma (WT22)**

*Offered at Clarkesville Campus*

Entrance Dates ..... Fall, Spring, Summer  
 Length of Program..... 5 Terms  
 Credit Hours Required for Graduation ..... 50

**Purpose:** The Welding Technology diploma program prepares students for careers in the welding industry. Program learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. Program graduates receive a Welding Technology diploma, have qualifications of a welding technician, and are prepared to take qualification tests required by industry. This program emphasizes welding theory and practical application necessary for successful employment.

**Admission Requirements:**

- Age 16 or older or student with dual/joint enrollment in high school or GED® students seeking access to quality instruction at the postsecondary level
- High school diploma or GED®
- Completion of application process including placement test; or provide SAT or ACT scores

**Program Requirement:**

- A grade of “C” or better must be achieved in each occupational course in order to complete the program.

**Program Courses**

**Credits**

**Basic Skills Courses**

**Total 9 credit hours**

COLL	1010	College and Career Success Skills	3
ENGL	1010	Fundamentals of English I	3
MATH	1012	Foundations of Mathematics	3

**Occupational Courses**

**Total 41 credit hours**

COFC	1080	Construction Trades Core	4
WELD	1005	Welding and Cutting Fundamentals	3
WELD	1015	Shielded Metal Arc Welding I	4
WELD	1025	Shielded Metal Arc Welding II	3
WELD	1035	Gas Metal Arc and Flux-Cored Arc Welding	4
WELD	1045	Gas Tungsten Arc Welding I	3
WELD	1055	Shielded Metal Arc Welding Pipe Welds	3
WELD	1065	GMAW and FCAW Pipe Welds	4
WELD	1075	Gas Tungsten Arc Welding Pipe Welding	4
WELD	1085	SMAW Stainless Steel Groove Welds	3
WELD	1105	Gas Metal Arc Welding – Aluminum	3
WELD	1115	Gas Tungsten Arc Welding – Aluminum	3

Estimated cost of books and supplies for full program is approximately \$650.  
 Additional fees - \$30 lab fee per occupational course.

## SCHOOL OF INDUSTRIAL TECHNOLOGY

### Gas Metal Arc Welding Certificate (GM21)

*Offered at Clarkesville Campus*

Entrance Dates ..... Fall, Spring, Summer  
 Length of Program..... 1 Term  
 Credit Hours Required for Graduation ..... 11

**Purpose:** The Gas Metal Arc Welding certificate program prepares students for welding careers in the MIG process. Topics include welding and cutting fundamentals, oxyfuel cutting techniques, and MIG welding techniques and processes.

**Admission Requirements:**

- Age 16 or older or student with dual/joint enrollment in high school or GED® students seeking access to quality instruction at the postsecondary level
- High school diploma or GED®
- Completion of application process including placement test; or provide SAT or ACT scores

**Program Requirement:**

- A grade of “C” or better must be achieved in each course in order to complete program.

**Program Courses**

**Credits**

COFC 1080	Construction Trade Core	4
WELD 1005	Welding and Cutting Fundamentals	3
WELD 1035	Gas Metal Arc and Flux-Cored Arc Welding	4

Estimated cost of books and supplies for full program is approximately \$350.  
 Additional fees - \$30 lab fee per occupational course.

### Gas Tungsten Arc Welding Certificate (GT31)

*Offered at Clarkesville Campus*

Entrance Dates ..... Fall, Spring, Summer  
 Length of Program..... 1 Term  
 Credit Hours Required for Graduation ..... 10

**Purpose:** The Gas Tungsten Arc Welding certificate program provides students instruction in TIG welding techniques. Topics include understanding the nature and culture of the welding industry, oxyfuel cutting techniques, and TIG welding processes.

**Admission Requirements:**

- Age 16 or older or student with dual/joint enrollment in high school or GED® students seeking access to quality instruction at the postsecondary level
- High school diploma or GED®
- Completion of application process including placement test; or provide SAT or ACT scores

**Program Requirement:**

- A grade of “C” or better must be achieved in each course in order to complete program.

**Program Courses**

**Credits**

COFC 1080	Construction Trades Core	4
WELD 1005	Welding and Cutting Fundamentals	3
WELD 1045	Gas Tungsten Arc Welding I	3

Estimated cost of books and supplies for full program is approximately \$350.  
 Additional fees - \$30 lab fee per occupational course.

## SCHOOL OF INDUSTRIAL TECHNOLOGY

### Pipe Welder Certificate (PW11)

*Offered at Clarkesville Campus*

Entrance Dates ..... Fall, Spring, Summer  
 Length of Program..... 2 Terms  
 Credit Hours Required for Graduation ..... 15

**Purpose:** The Pipe Welder certificate program provides instruction in the specialized field of pipe welding. A good understanding and skill base is essential for the completion of this program. Topics include advanced gas tungsten arc welding practices, fabrication practices, and pipe welding techniques.

**Admission Requirements:**

- Age 16 or older or student with dual/joint enrollment in high school or GED® students seeking access to quality instruction at the postsecondary level
- High school diploma or GED®
- Completion of application process including placement test; or provide SAT or ACT scores
- Must have graduated from the Welding Technology diploma program; or successful completion of welding skills assessment to include basic arc, advanced arc, basic TIG, and advanced TIG or construction/pre-pipe welding; or able to pass a welding test – GTAW (TIG) root and hot pass and SMAW (Arc) fill and cap test on 3/8” plate in the vertical position open butt with no backing strip.

**Program Requirements:**

- A grade of “C” or better must be achieved in each course in order to complete program.

**Program Courses**

**Credits**

COFC	1080	Construction Trades Core	4
WELD	1055	Shielded Metal Arc Welding Pipe Welds	3
WELD	1075	Gas Tungsten Arc Welding Pipe Welding	4
WELD	1570	Advanced Nuclear Pipe Welding	4

Estimated cost of books and supplies for full program is approximately \$350.  
 Additional fees - \$30 lab fee per occupational course.

### Shielded Metal Arc Welding Certificate (SM21)

*Offered at Clarkesville Campus*

Entrance Dates ..... Fall, Spring, Summer  
 Length of Program..... 1 Term  
 Credit Hours Required for Graduation ..... 11

**Purpose:** The Shielded Metal Arc Welding certificate program prepares students for careers in the welding industry. This certificate emphasizes instruction in shielded metal arc welding in the overhead, horizontal, and vertical positions.

**Admission Requirements:**

- Age 16 or older or student with dual/joint enrollment in high school or GED® students seeking access to quality instruction at the postsecondary level
- High school diploma or GED®
- Completion of application process including placement test; or provide SAT or ACT scores

**Program Requirement:**

- A grade of “C” or better must be achieved in each course in order to complete program.

**Program Courses**

**Credits**

COFC	1080	Construction Trades Core	4
WELD	1005	Welding and Cutting Fundamentals	3
WELD	1015	Shielded Metal Arc Welding I	4

Estimated cost of books and supplies for full program is approximately \$350.  
 Additional fees - \$30 lab fee per occupational course.