

Welding

The Welding program prepares the student for certification in a variety of welding techniques and processes. Students begin doing basic welding beads and progress step-by-step to achieve the final goal of pipe welding. Progression is monitored and mastery of each technique is achieved by a combination of classroom, individual, and text book instruction. Graduates of the Welding program will be able to demonstrate competencies in flame cutting, electric ARC welding, gas tungsten, gas metal ARC welding, and flux-cored ARC welding processes.

Program/Location	Length	Days	Time
Day Program/ Knoxville Main Campus	12 Months	Monday-Friday	8:00am—2:30 pm
Night Program/Knoxville Main Campus	12 Months	Monday-Friday	3:30 pm—10:00 pm
Day Program/Strawberry Plains Campus	12 Months	Monday-Friday	8:00am—2:30 pm
Night Program/Anderson County Career & Technical Center	14 Months	Monday-Thursday	4:00 pm—10:00 pm
Night Program/Oak Ridge High School	14 Months	Monday-Thursday	4:00 pm—10:00 pm

Course Outline

Orientation & Safety
 Technology Foundations
 OSHA 10 Training
 Oxyfuel Cutting
 Related Theory
 Introduction to Shielded Metal
 Arc Welding
 6010—7018 Beads (all positions)
 T-joints 6010—7018 (all positions)
 Air Carbon Arc Cutting
 Aluminum
 Welding Plate 6010—7018 (all positions)
 Pipe Welding 6010—7018 (all positions)
 Gas Metal Arc Welding, Solid Wire and Flux Core
 Pipe Gas Tungsten Arc (all positions)
 Plate Gas Tungsten Arc (all positions)

Typical Job Opportunities

Construction
 Manufacturing
 Pipe Lines

Diploma & Required Clock Hours

Welder, Combination—1,296

Certificates & Required Clock Hours

Gas Metal Arc Welder—972

Shielded Metal Arc Welder—864

Tack—432

HOW TO APPLY

All Documents Must be Presented Together to Apply

- 1. FAFSA—Provide Proof of Completed FAFSA**
School Code = 004025 at <https://fafsa.ed.gov/>
- 2. Immunizations—Provide Proof of Required Immunizations (Form is Attached)**
- 3. Complete TCAT Application for Enrollment (Form is Attached)**



Welding

Locations: Knoxville Main Campus Day & Night, Strawberry Plains Day

Book, Tool, and Supply List

1st Trimester				
Tuition		Cost	Total	
Tuition (432 hours)*		\$1,139.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
Welding Course Fee		\$ 100.00		
OSHA 10 Training		\$ 25.00		
TOTAL				\$1,341.00
Books		ISBN	Cost	Required
Welding Principles and Application (SG/Lab), 7th	9781111039189	\$ 105.00	x	
Welding Principles and Application (w/out access code), 7th	9781111039172	\$ 180.00	x	
TOTAL				\$285.00
Supplies		Needed By	Cost	Required
3 Pair Denim Blue Jeans	First day of class	\$ 75.00	x	
3 Pair Blue Denim Long Sleeve Button Down Work Shirts with Poc	First day of class	\$ 75.00	x	
3 Gray T-shirts (no logos)	First day of class	\$ 30.00	x	
Steel Toe Leather Work Boots	First day of class	\$ 140.00	x	
Leather Belt	First day of class	\$ 30.00	x	
Safety Glasses	First day of class	\$ 10.00	x	
TOTAL				\$360.00
Tools		Needed By	Cost	Required
Welding Jacket (blue canvas body w leather sleeves)	First day of class	\$ 40.00	x	
4 Pairs Welding Gloves	First day of class	\$ 18.00	x	
Safety Glasses	First day of class	\$ 5.00	x	
14" Metal Half Round File	First day of class	\$ 12.00	x	
Standard Tape Measure	First day of class	\$ 5.00	x	
Striker	First day of class	\$ 4.00	x	
Welding Hood (#10 Shade Lens)	First day of class	\$ 85.00	x	
Wire Brush	First day of class	\$ 5.00	x	
Chipping Hammer	First day of class	\$ 5.00	x	
4.5" Angle Grinder	First day of class	\$ 100.00	x	
4.5" Grinding Disks (4)	First day of class	\$ 10.00	x	
Welding Hat	First day of class	\$ 8.00	x	
11" Vice Gripe (locking "C" clamp)	First day of class	\$ 22.00	x	
2 Pairs Ear Plugs	First day of class	\$ 1.00	x	
1 Pair Channellocks Pliers	First day of class	\$ 22.00	x	
Clear Face Shield - Head Gear	First day of class	\$ 20.00	x	
Particulate Respirator	First day of class	\$ 5.00	x	
TOTAL				\$367.00

All Costs are Estimated and Subject to Change Without Notice Revised: 5/4/2017

*Denotes costs that can be covered by TN Promise and TN Reconnect

2nd Trimester				
Tuition		Cost		Total
Tuition (432 hours)*		\$1,139.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
Welding Course Fee		\$ 100.00		
TOTAL				\$1,316.00
Tools				
	Needed By	Cost	Required	
Stainless Steel Wire Brush	First day of class	\$ 8.00	x	
TIG Gloves	First day of class	\$ 15.00	x	
TIG Collet 3/32"	First day of class	\$ 10.00	x	
TIG Collet Body 3/32"	First day of class	\$ 15.00	x	
TIG Cup #4, #6, and #8	First day of class	\$ 12.00	x	
TIG Black Cap Long	First day of class	\$ 8.00	x	
Tungsten Pure Ground (3/32" x 7")	First day of class	\$ 40.00	x	
Tungsten 2% Thoriated (3/32" x 7")	First day of class	\$ 40.00	x	
TOTAL				\$148.00
3rd Trimester				
Tuition		Cost		Total
Tuition (432 hours)*		\$1,139.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
Welding Course Fee		\$ 100.00		
TOTAL				\$1,316.00
Miscellaneous Cost		Cost	Required	
Graduation Supplies		\$ 40.00	x	
TOTAL				\$40.00
TOTAL PROGRAM COST				\$5,173.00

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Welding

Locations: Anderson County Career & Technical Center and Oak Ridge High School Night Programs
Book, Tool, and Supply List

1st Trimester				
Tuition		Cost	Total	
Tuition (360 hours)*		\$1,139.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
Welding Course Fee		\$ 100.00		
OSHA 10 Training		\$ 25.00		
TOTAL				\$1,341.00
Books				
Books	ISBN	Cost	Required	
Welding Principles and Application (SG/Lab), 7th	9781111039189	\$ 105.00	x	
Welding Principles and Application (w/out access code), 7th	9781111039172	\$ 180.00	x	
TOTAL				\$285.00
Supplies				
Supplies	Needed By	Cost	Required	
3 Pair Denim Blue Jeans	First day of class	\$ 75.00	x	
3 Pair Blue Denim Long Sleeve Button Down Work Shirts with Poc	First day of class	\$ 75.00	x	
3 Gray T-shirts (no logos)	First day of class	\$ 30.00	x	
Steel Toe Leather Work Boots	First day of class	\$ 140.00	x	
Leather Belt	First day of class	\$ 30.00	x	
Safety Glasses	First day of class	\$ 10.00	x	
TOTAL				\$360.00
Tools				
Tools	Needed By	Cost	Required	
Welding Jacket (blue canvas body w leather sleeves)	First day of class	\$ 40.00	x	
4 Pairs Welding Gloves	First day of class	\$ 18.00	x	
Safety Glasses	First day of class	\$ 5.00	x	
14" Metal Half Round File	First day of class	\$ 12.00	x	
Standard Tape Measure	First day of class	\$ 5.00	x	
Striker	First day of class	\$ 4.00	x	
Welding Hood (#10 Shade Lens)	First day of class	\$ 85.00	x	
Wire Brush	First day of class	\$ 5.00	x	
Chipping Hammer	First day of class	\$ 5.00	x	
4.5" Angle Grinder	First day of class	\$ 100.00	x	
4.5" Grinding Disks (4)	First day of class	\$ 10.00	x	
Welding Hat	First day of class	\$ 8.00	x	
11"Vice Gripe (locking "C" clamp)	First day of class	\$ 22.00	x	
2 Pairs Ear Plugs	First day of class	\$ 1.00	x	
1 Pair Channellocks Pliers	First day of class	\$ 22.00	x	
Clear Face Shield - Head Gear	First day of class	\$ 20.00	x	
Particulate Respirator	First day of class	\$ 5.00	x	
TOTAL				\$367.00

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2nd Trimester

Tuition	Cost	Total
Tuition (360 hours)*	\$1,139.00	
Technology Access Fee*	\$ 67.00	
Student Activity Fee*	\$ 10.00	
Welding Course Fee	\$ 100.00	
TOTAL		\$1,316.00

Tools	Needed By	Cost	Required
Stainless Steel Wire Brush	First day of class	\$ 8.00	x
TIG Gloves	First day of class	\$ 15.00	x
TIG Collet 3/32"	First day of class	\$ 10.00	x
TIG Collet Body 3/32"	First day of class	\$ 15.00	x
TIG Cup #4, #6, and #8	First day of class	\$ 12.00	x
TIG Black Cap Long	First day of class	\$ 8.00	x
Tungsten Pure Ground (3/32" x 7")	First day of class	\$ 40.00	x
Tungsten 2% Thoriated (3/32" x 7")	First day of class	\$ 40.00	x
TOTAL			\$148.00

3rd Trimester

Tuition	Cost	Total
Tuition (360 hours)*	\$1,139.00	
Technology Access Fee*	\$ 67.00	
Student Activity Fee*	\$ 10.00	
Welding Course Fee	\$ 100.00	
TOTAL		\$1,316.00

4th Trimester

Tuition	Cost	Total
Tuition (216 hours)*	\$ 631.00	
Technology Access Fee*	\$ 67.00	
Student Activity Fee*	\$ 10.00	
Welding Course Fee	\$ 100.00	
TOTAL		\$808.00

Miscellaneous Cost	Cost	Required
Graduation Supplies	\$ 40.00	x
TOTAL		\$40.00
TOTAL PROGRAM COST		\$5,981.00

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TCAT - Knoxville Certification of Immunization Measles, Mumps, and Rubella (MMR)

Student's name: _____ Program of Enrollment: _____

PART I (TO BE COMPLETED BY STUDENT)

Proof of MMR immunization is not required for the following reason:

- I graduated from a Tennessee public or private high school in 1999 or after. (transcript attached)
- I attended a Tennessee public or private high school in 2001 or after. (transcript attached)
- I was born prior to January 1, 1957. (copy of photo ID or birth certificate attached)
- I am active duty or former military personnel. (copy of DD214 or active military ID attached)

IF THE ABOVE IS CHECKED, PLEASE SIGN BELOW.

PART II (TO BE COMPLETED BY STUDENT)

Proof of MMR immunization is not required for the following reason:

- I refuse immunization because of religious doctrine. (Reason affirmed under the penalties of perjury. Please attach statement.)

IF THE ABOVE IS CHECKED, PLEASE SIGN BELOW.

PART III—MMR (TO BE COMPLETED BY PHYSICIAN)

Please circle the number that applies to this patient:

1. Patient has received two doses of measles vaccination since the age of 12 months:

Month/year _____ Month/year _____

2. Vaccination is medically contraindicated because of pregnancy, allergy to vaccine, etc. (Please list reasons.)

3. Patient had disease, as confirmed by medical record:

Month/year _____

4. Patient is immune to disease, as confirmed by laboratory.

Comment _____

ATTEST

(Must be signed by an M.D. or D.O.)

Name of physician (Please print) _____

Office telephone _____

Physician's signature _____ Date _____

Student's signature _____ Date _____

TCAT - Knoxville Certification of Immunization Varicella (Chicken Pox)

Student's name: _____ Program of Enrollment: _____

PART I (TO BE COMPLETED BY STUDENT)

Proof of varicella (chicken pox) immunization is not required for the following reason:

- I attended a Tennessee public high school between 1999 and May 2016. **(Must provide proof of second varicella vaccine dose from your physician office.)** (transcript attached)
- I was born prior to January 1, 1980. (copy of photo ID or birth certificate attached)
- I am active duty or former military personnel. (copy of DD214 attached)

IF THE ABOVE IS CHECKED, PLEASE SIGN BELOW.

PART II (TO BE COMPLETED BY STUDENT)

Proof of varicella (chicken pox) immunization is not required for the following reason:

- I refuse immunization because of religious doctrine. (Reason affirmed under the penalties of perjury. Please attach statement.)

IF THE ABOVE IS CHECKED, PLEASE SIGN BELOW.

PART III—VARICELLA (TO BE COMPLETED BY PHYSICIAN)

Please circle the number that applies to this patient:

1. Patient has received two doses of varicella (chicken pox) vaccination since the age of 12 months:
Month/year _____ Month/year _____
2. Vaccination is medically contraindicated because of pregnancy, allergy to vaccine, etc. (Please list reasons.)

3. Patient had disease, as confirmed by medical record:
Month/year _____
4. Patient is immune to disease, as confirmed by laboratory.
Comment _____

ATTEST

(Must be signed by an M.D. or D.O.)

Name of physician (Please print) _____

Office telephone _____

Physician's signature _____ Date _____

Student's signature _____ Date _____



Application for Enrollment

The information is for Office use only:

ADMISSIONS REQUIREMENTS

- FAFSA I will not be filing financial aid. I will be paying for my education. Students Initials: _____
- Immunizations Education Transcripts

SPECIAL ADMISSIONS REQUIREMENTS

Cosmetology:

- Photo Proof of Age Copy of SS Card RT/LT Handed Manicuring Only

Dental Assisting, Medical Assisting, and Surgical Technology

Compass required scores: Math 30 and Reading 70

- COMPASS or ACT – Scores: _____ Math _____ Reading (Date: _____)
- CPR Documentation (BLS for Healthcare Providers)

Practical Nursing:

Compass required scores: Math 50 and Reading 80

- Notarized Declaration of Citizenship Copy of ID Used to Declare Citizenship
- CPR Documentation (BLS for Healthcare Providers)
- COMPASS or ACT – Scores: _____ Math _____ Reading (Date: _____)

Truck Driving:

- MVR DOT Physical Valid Driver's License
- U.S. Citizenship / Residency

Staff Signature: _____

Date: _____