

Welding Technology

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	TCAT Knoxville Main Campus	12 Months	Monday-Friday	8:00 am—2:30 pm
Day Program	TCAT Knoxville at Anderson County Campus	12 Months	Monday-Friday	8:00 am—2:30 pm
Day Program	PSCC Strawberry Plains Campus	12 Months	Monday-Friday	8:00 am—2:30 pm
Night Program	TCAT Knoxville Main Campus	12 Months	Monday-Friday	3:30 pm—10:00 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

	Curriculum/Courses	Completion Award	Required Hours
WEL 0001	Worker Characteristic	Welders Helper	Certificate 84
WEL 1010	Technology Foundations	Shielded Metal Arc Welder	Certificate 432
WEL 1020	Shop Orientation & Safety	Gas Metal Arc Welder	Certificate 864
WEL 1030	Cutting Processes	Gas Tungsten Arc Welder	Certificate 1296
WEL 1040	Basic Shielded Metal Arc Weld	Welder	Diploma 1296
WEL 1050	Basic Gas Metal Arc Welding		
WEL 0002	Worker Characteristic		
WEL 2010	Blue Print Theory		
WEL 2020	Basic Gas Tungsten Arc Welding		
WEL 2030	Adv Shielded Metal Arc Welding		
WEL 2040	Advanced Gas Metal Arc Welding		
WEL 0003	Worker Characteristic		
WEL 3010	Blue Print Reading		
WEL 3020	Adv Gas Tungsten Arc Pipe Weld		

Typical Job Opportunities

Construction
Manufacturing
Pipe Lines

HOW TO APPLY

All Documents Must be Presented Together to Apply

⇒ Complete the **Free Application For Federal Student Aid (FAFSA)** online – the website is www.fafsa.ed.gov and our school code is 004025.

⇒ Complete **TCAT Knoxville Application for Enrollment** online at <https://apply.tbr.edu/?tcat=knoxville>



Welding

Locations: Knoxville Main Campus Day & Night, Strawberry Plains Day,
and TCATK at Anderson County
Book, Tool, and Supply List

For the most current pricing available please reference the bookstore at <http://www.pstccbooks.com/>
(Please Select Division Campus and TCATK term to see books available.)

1st Trimester				
Tuition		Cost	Total	
Tuition (432 hours)*		\$1,169.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
Welding Course Fee		\$ 100.00		
OSHA 10 Training		\$ 25.00		
TOTAL				\$1,371.00
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				
	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: 1/11/2018

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

2nd Trimester				
Tuition		Cost	Total	
Tuition (432 hours)*		\$1,169.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
Welding Course Fee		\$ 100.00		
TOTAL				\$1,346.00
Tools				
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)*		\$1,169.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
Welding Course Fee		\$ 100.00		
TOTAL				\$1,346.00
Miscellaneous Cost		Cost	Required	
Graduation Supplies		\$ 40.00	x	
TOTAL				\$40.00
TOTAL PROGRAM COST				\$5,263.00

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Welding

Locations: Oak Ridge High School Night Programs

Book, Tool, and Supply List

For the most current pricing available please reference the bookstore at <http://www.pstccbooks.com/>
 (Please Select Division Campus and TCATK term to see books available.)

1st Trimester					
Tuition		Cost		Total	
Tuition (360 hours)*		\$1,169.00			
Technology Access Fee*		\$ 67.00			
Student Activity Fee*		\$ 10.00			
Welding Course Fee		\$ 100.00			
OSHA 10 Training		\$ 25.00			
TOTAL					\$1,371.00
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

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2nd Trimester				
Tuition		Cost	Total	
Tuition (360 hours)*		\$1,169.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
Welding Course Fee		\$ 100.00		
TOTAL				\$1,346.00
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)*		\$1,169.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
Welding Course Fee		\$ 100.00		
TOTAL				\$1,346.00
4th Trimester				
Tuition		Cost	Total	
Tuition (216 hours)*		\$ 647.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
Welding Course Fee		\$ 100.00		
TOTAL				\$824.00
Miscellaneous Cost		Cost	Required	
Graduation Supplies		\$ 40.00	x	
TOTAL				\$40.00
TOTAL PROGRAM COST				\$6,087.00

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