

# 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		

## HOW TO APPLY

*All Documents Must be Presented Together to Apply*

- 1. Complete the Free Application For Federal Student Aid (FAFSA) online – the website is [www.fafsa.ed.gov](http://www.fafsa.ed.gov) and our school code is 004025.**
- 2. Complete TCAT Application for Enrollment (Form is Attached)**

## Typical Job Opportunities

Construction  
Manufacturing  
Pipe Lines





## Welding

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

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		
<b>TOTAL</b>				<b>\$1,371.00</b>
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	
<b>TOTAL</b>				<b>\$285.00</b>
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	
<b>TOTAL</b>				<b>\$360.00</b>
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	
<b>TOTAL</b>				<b>\$367.00</b>

All Costs are Estimated and Subject to Change Without Notice Revised: 8/25/2017

\*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		
<b>TOTAL</b>				<b>\$1,346.00</b>
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	
<b>TOTAL</b>				<b>\$148.00</b>
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		
<b>TOTAL</b>				<b>\$1,346.00</b>
Miscellaneous Cost		Cost	Required	
Graduation Supplies		\$ 40.00	x	
<b>TOTAL</b>				<b>\$40.00</b>
<b>TOTAL PROGRAM COST</b>				<b>\$5,263.00</b>

All Costs are Estimated and Subject to Change Without Notice Revised: 8/25/2017

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



## 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)*	\$1,169.00		
Technology Access Fee*	\$ 67.00		
Student Activity Fee*	\$ 10.00		
Welding Course Fee	\$ 100.00		
OSHA 10 Training	\$ 25.00		
<b>TOTAL</b>			<b>\$1,371.00</b>

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	
<b>TOTAL</b>				<b>\$285.00</b>

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	
<b>TOTAL</b>				<b>\$360.00</b>

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	
<b>TOTAL</b>				<b>\$367.00</b>

2nd Trimester			
Tuition	Cost	Total	
Tuition (360 hours)*	\$1,169.00		
Technology Access Fee*	\$ 67.00		

All Costs are Estimated and Subject to Change Without Notice Revised: 8/25/2017

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

Student Activity Fee*	\$ 10.00		
Welding Course Fee	\$ 100.00		
<b>TOTAL</b>			<b>\$1,346.00</b>

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
<b>TOTAL</b>			<b>\$148.00</b>

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		
<b>TOTAL</b>			<b>\$1,346.00</b>

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		
<b>TOTAL</b>			<b>\$824.00</b>

Miscellaneous Cost	Cost	Required	
Graduation Supplies	\$ 40.00	x	
<b>TOTAL</b>			<b>\$40.00</b>
<b>TOTAL PROGRAM COST</b>			<b>\$6,087.00</b>

All Costs are Estimated and Subject to Change Without Notice Revised: 8/25/2017

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



# TENNESSEE COLLEGES OF APPLIED TECHNOLOGY

## ENROLLMENT APPLICATION

Applicants must complete every item on this form, sign and date and return it to the College.

<b>Personal Information</b>	<p><b>Full Legal Name</b></p> <hr/> <p style="text-align: center;">Last <span style="margin-left: 150px;">First</span> <span style="margin-left: 150px;">Middle</span></p> <hr/> <p>Address <span style="float: right;">City</span></p> <hr/> <p>County <span style="margin-left: 150px;">State</span> <span style="margin-left: 50px;">Zip</span> <span style="float: right;">Email Address</span></p> <p><span style="margin-left: 50px;">- -</span> <span style="margin-left: 150px;">/ /</span> <span style="margin-left: 150px;">Gender: <input type="checkbox"/> M <input type="checkbox"/> F</span></p> <p>Social Security <span style="margin-left: 100px;">Date of Birth</span> <span style="margin-left: 100px;">Age</span></p> <p>Marital Status: <input type="checkbox"/> Married <input type="checkbox"/> Single Preferred Phone Number: _____</p> <p>Race: Do you consider yourself to be Hispanic/Latino/Spanish origin? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Select one or more of the following racial categories to best describe you:</p> <p><input type="checkbox"/> American Indian/Alaska Native <span style="margin-left: 150px;"><input type="checkbox"/> Native Hawaiian/Pacific Islander</span></p> <p><input type="checkbox"/> Asian <span style="margin-left: 150px;"><input type="checkbox"/> White</span></p> <p><input type="checkbox"/> Black or African American</p> <p>Citizenship status: <input type="checkbox"/> US Citizen or US National <input type="checkbox"/> US Dual Citizen <input type="checkbox"/> US Permanent Resident or Refugee <input type="checkbox"/> Other</p> <p>US Forces Status: <input type="checkbox"/> Currently Serving <input type="checkbox"/> Previously Serving <input type="checkbox"/> Current Dependent <input type="checkbox"/> N/A</p> <p>ALL MALES 18 OR OLDER <b>MUST</b> be registered with Selective Service. Have you registered for Selective Service?</p> <p><input type="checkbox"/> Not required to register <input type="checkbox"/> Registered <input type="checkbox"/> Required to register, but not registered</p>
<b>Prior Education/ Training</b>	<p>Education (<b>insert highest level of education completed</b>): _____</p> <p>Name of last high school attended: _____</p> <p>High school graduation date (mm/yyyy): _____ GED Diploma Date _____</p> <p>Are you seeking credit for prior education, training or work experience? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<b>Program</b>	<p>Please review the campuses website and provide the program name choice for career training (Example: Administration Office Technology)</p> <p>_____</p> <p>When will you be available to enroll in class? <input type="checkbox"/> Fall <input type="checkbox"/> Spring <input type="checkbox"/> Summer</p> <p>Do you plan to apply for financial aid? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>

Signature of Applicant: \_\_\_\_\_ Date of Application: \_\_\_\_\_

The Tennessee Colleges of Applied Technology (TCATs) do not discriminate on the basis of race, color, religion, creed, ethnic or national origin, sex, sexual orientation, gender identity/expression, disability, age, status as a covered veteran, genetic information and any other category protected by federal or state civil rights law with respect to all employment, programs and activities sponsored by the TCATs.



**OFFICE USE ONLY**

**ADMISSIONS REQUIREMENTS**

FAFSA       I will not be filing financial aid. I will be paying for my education. Students Initials: \_\_\_\_\_

**SPECIAL ADMISSIONS REQUIREMENTS**

**Cosmetology:**

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

**Dental Assisting, Medical Assisting, and Surgical Technology**

HESI scores: Math 70 and Reading 70 | Compass scores: Math 30 and Reading 70

HESI | ACT | Compass Scores: \_\_\_\_\_ Math \_\_\_\_\_ Reading \_\_\_\_\_ (Date: \_\_\_\_\_)  
 CPR Documentation (BLS for Healthcare Providers)  
 Educational Transcripts    Immunizations

**Medical Office Information Technology**

Educational Transcripts

**Practical Nursing:**

HESI required scores: Math 70 and Reading 70 | Compass scores: Math 50 and Reading 80

Notarized Declaration of Citizenship    Copy of ID Used to Declare Citizenship  
 CPR Documentation (BLS for Healthcare Providers)  
 Educational Transcripts    Immunizations  
 HESI | ACT | Compass Scores: \_\_\_\_\_ Math \_\_\_\_\_ Reading \_\_\_\_\_ (Date: \_\_\_\_\_)

**Truck Driving:**

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

**Staff Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_