



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					
uition			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
ooks	ISBN		Cost	Required	
Welding Principles and Application (SG/Lab), 7th	9781111039189	\$	105.00	х	
Welding Principles and Application (w/out access code), 7th	9781111039172	\$	180.00	х	
TOTAL					\$285.00
upplies	Needed By		Cost	Required	
3 Pair Denim Blue Jeans	First day of class	\$	75.00	х	
3 Pair Blue Denim Long Sleeve Button Down Work Shirts with Poc	First day of class	\$	75.00	х	
3 Gray T-shirts (no logos)	First day of class	\$	30.00	х	
Steel Toe Leather Work Boots	First day of class	\$	140.00	х	
Leather Belt	First day of class	\$	30.00	х	
Safety Glasses	First day of class	\$	10.00	х	
TOTAL					\$360.00
pols	Needed By		Cost	Required	
Welding Jacket (blue canvas body w leather sleeves)	First day of class	\$	40.00	х	
4 Pairs Welding Golves	First day of class	\$	18.00	х	
Safety Glasses	First day of class	\$	5.00	х	
14" Metal Half Round File	First day of class	\$	12.00	х	
Standard Tape Measure	First day of class	\$	5.00	х	
Striker	First day of class	\$	4.00	х	
Welding Hood (#10 Shade Lens)	First day of class	\$	85.00	х	
Wire Brush	First day of class	\$	5.00	х	
Chipping Hammer	First day of class	\$	5.00	х	
4.5" Angle Grinder	First day of class		100.00	х	
			10.00	х	
4.5" Grinding Disks (4)	First day of class	\$			
4.5" Grinding Disks (4) Welding Hat	First day of class First day of class	\$ \$	8.00	х	
5 , ,	•			x x	
Welding Hat	First day of class	\$	8.00		
Welding Hat 11"Vice Gripe (locking "C" clamp)	First day of class First day of class	\$	8.00 22.00	х	
Welding Hat 11"Vice Gripe (locking "C" clamp) 2 Pairs Ear Plugs	First day of class First day of class First day of class	\$ \$ \$	8.00 22.00 1.00	x x	
Welding Hat 11"Vice Gripe (locking "C" clamp) 2 Pairs Ear Plugs 1 Pair Channellocks Pliers	First day of class First day of class First day of class First day of class	\$ \$ \$	8.00 22.00 1.00 22.00	x x x	\$367.00

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



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	ISBN		Cost	Required	
Welding Principles and Application (SG/Lab), 7th	9781111039189	\$	105.00	х	
Welding Principles and Application (w/out access code), 7th	9781111039172	\$	180.00	х	
TOTAL					\$285.00
Supplies	Needed By		Cost	Required	
3 Pair Denim Blue Jeans	First day of class	\$	75.00	х	
3 Pair Blue Denim Long Sleeve Button Down Work Shirts with Poc	First day of class	\$	75.00	х	
3 Gray T-shirts (no logos)	First day of class	\$	30.00	х	
Steel Toe Leather Work Boots	First day of class	\$	140.00	х	
Leather Belt	First day of class	\$	30.00	х	
Safety Glasses	First day of class	\$	10.00	х	
TOTAL	•				\$360.00
					7300.00
				l I	7300.00
Tools	Needed By		Cost	Required	3300.00
	Needed By First day of class	\$	Cost 40.00	Required x	3300.00
Tools		\$			\$300.00
Tools Welding Jacket (blue canvas body w leather sleeves)	First day of class		40.00	х	\$300.00
Tools Welding Jacket (blue canvas body w leather sleeves) 4 Pairs Welding Golves	First day of class First day of class	\$	40.00 18.00	x x	\$300.00
Tools Welding Jacket (blue canvas body w leather sleeves) 4 Pairs Welding Golves Safety Glasses	First day of class First day of class First day of class	\$ \$	40.00 18.00 5.00	x x x	\$300.00
Tools Welding Jacket (blue canvas body w leather sleeves) 4 Pairs Welding Golves Safety Glasses 14" Metal Half Round File	First day of class First day of class First day of class First day of class	\$ \$ \$	40.00 18.00 5.00 12.00	x x x	\$300.00
Tools Welding Jacket (blue canvas body w leather sleeves) 4 Pairs Welding Golves Safety Glasses 14" Metal Half Round File Standard Tape Measure	First day of class First day of class First day of class First day of class First day of class	\$ \$ \$ \$	40.00 18.00 5.00 12.00 5.00	x x x x	\$300.00
Tools Welding Jacket (blue canvas body w leather sleeves) 4 Pairs Welding Golves Safety Glasses 14" Metal Half Round File Standard Tape Measure Striker	First day of class First day of class	\$ \$ \$ \$ \$	40.00 18.00 5.00 12.00 5.00 4.00	x x x x x	\$300.00
Tools Welding Jacket (blue canvas body w leather sleeves) 4 Pairs Welding Golves Safety Glasses 14" Metal Half Round File Standard Tape Measure Striker Welding Hood (#10 Shade Lens)	First day of class First day of class	\$ \$ \$ \$ \$	40.00 18.00 5.00 12.00 5.00 4.00 85.00	x x x x x	3300.00
Tools Welding Jacket (blue canvas body w leather sleeves) 4 Pairs Welding Golves Safety Glasses 14" Metal Half Round File Standard Tape Measure Striker Welding Hood (#10 Shade Lens) Wire Brush	First day of class	\$ \$ \$ \$ \$ \$	40.00 18.00 5.00 12.00 5.00 4.00 85.00 5.00	x x x x x x	3300.00
Tools Welding Jacket (blue canvas body w leather sleeves) 4 Pairs Welding Golves Safety Glasses 14" Metal Half Round File Standard Tape Measure Striker Welding Hood (#10 Shade Lens) Wire Brush Chipping Hammer	First day of class	\$ \$ \$ \$ \$ \$	40.00 18.00 5.00 12.00 5.00 4.00 85.00 5.00	x x x x x x x	3300.00
Tools Welding Jacket (blue canvas body w leather sleeves) 4 Pairs Welding Golves Safety Glasses 14" Metal Half Round File Standard Tape Measure Striker Welding Hood (#10 Shade Lens) Wire Brush Chipping Hammer 4.5" Angle Grinder	First day of class	\$ \$ \$ \$ \$ \$ \$	40.00 18.00 5.00 12.00 5.00 4.00 85.00 5.00 5.00 100.00	x x x x x x x x x x	3300.00
Tools Welding Jacket (blue canvas body w leather sleeves) 4 Pairs Welding Golves Safety Glasses 14" Metal Half Round File Standard Tape Measure Striker Welding Hood (#10 Shade Lens) Wire Brush Chipping Hammer 4.5" Angle Grinder 4.5" Grinding Disks (4)	First day of class	\$ \$ \$ \$ \$ \$ \$	40.00 18.00 5.00 12.00 5.00 4.00 85.00 5.00 5.00 100.00	x x x x x x x x x x x x	3300.00
Tools Welding Jacket (blue canvas body w leather sleeves) 4 Pairs Welding Golves Safety Glasses 14" Metal Half Round File Standard Tape Measure Striker Welding Hood (#10 Shade Lens) Wire Brush Chipping Hammer 4.5" Angle Grinder 4.5" Grinding Disks (4) Welding Hat	First day of class	\$ \$ \$ \$ \$ \$ \$	40.00 18.00 5.00 12.00 5.00 4.00 85.00 5.00 5.00 100.00 10.00	x x x x x x x x x x x x x x x x x x x	3300.00
Tools Welding Jacket (blue canvas body w leather sleeves) 4 Pairs Welding Golves Safety Glasses 14" Metal Half Round File Standard Tape Measure Striker Welding Hood (#10 Shade Lens) Wire Brush Chipping Hammer 4.5" Angle Grinder 4.5" Grinding Disks (4) Welding Hat 11"Vice Gripe (locking "C" clamp)	First day of class	\$ \$ \$ \$ \$ \$ \$ \$	40.00 18.00 5.00 12.00 5.00 4.00 85.00 5.00 5.00 100.00 8.00 22.00	x x x x x x x x x x x x x x x x x x x	3300.00
Tools Welding Jacket (blue canvas body w leather sleeves) 4 Pairs Welding Golves Safety Glasses 14" Metal Half Round File Standard Tape Measure Striker Welding Hood (#10 Shade Lens) Wire Brush Chipping Hammer 4.5" Angle Grinder 4.5" Grinding Disks (4) Welding Hat 11"Vice Gripe (locking "C" clamp) 2 Pairs Ear Plugs	First day of class	\$ \$ \$ \$ \$ \$ \$ \$	40.00 18.00 5.00 12.00 5.00 4.00 85.00 5.00 100.00 10.00 8.00 22.00 1.00	x x x x x x x x x x x x x x x x x x x	3300.00
Tools Welding Jacket (blue canvas body w leather sleeves) 4 Pairs Welding Golves Safety Glasses 14" Metal Half Round File Standard Tape Measure Striker Welding Hood (#10 Shade Lens) Wire Brush Chipping Hammer 4.5" Angle Grinder 4.5" Grinding Disks (4) Welding Hat 11"Vice Gripe (locking "C" clamp) 2 Pairs Ear Plugs 1 Pair Channellocks Pliers	First day of class	\$ \$ \$ \$ \$ \$ \$ \$ \$	40.00 18.00 5.00 12.00 5.00 4.00 85.00 5.00 100.00 10.00 8.00 22.00 1.00	x x x x x x x x x x x x x x x x x x x	7300.00

2nd Trimester					
uition			Cost		Total
Tuition (360 hours)*		\$1	1,139.00		Total
Technology Access Fee*		\$	67.00		
Student Activity Fee*		\$	10.00		
Welding Course Fee			100.00		
TOTAL		Y	100.00		\$1,316.0
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ools	Needed By		Cost	Required	
Stainless Steel Wire Brush	First day of class	\$	8.00	х	
TIG Gloves	First day of class	\$	15.00	х	
TIG Collet 3/32"	First day of class	\$	10.00	х	
TIG Collet Body 3/32"	First day of class	\$	15.00	х	
TIG Cup #4, #6, and #8	First day of class	\$	12.00	х	
TIG Black Cap Long	First day of class	\$	8.00	х	
Tungsten Pure Ground (3/32" x 7")	First day of class	\$	40.00	х	
Tungsten 2% Thoriated (3/32" x 7")	First day of class	\$	40.00	х	
TOTAL					\$148.0
3rd Trimester					
uition			Cost		Total
Tuition (360 hours)*		\$1	,139.00		
Technology Access Fee*		\$	67.00		
Student Activity Fee*		\$	10.00		
Welding Course Fee		\$	100.00		
TOTAL					\$1,316.0
4th Trimester					
uition			Cost		Total
Tuition (216 hours)*		\$	631.00		
Technology Access Fee*		\$	67.00		
Student Activity Fee*		\$	10.00		
Welding Course Fee		\$	100.00		
TOTAL					\$808.
liscelleanous Cost			Cost	Required	
naceneurious cost					
		ς	40 00	V	
Graduation Supplies TOTAL		\$	40.00	Х	\$40.

Measles, Mumps, and Rubella (MMR)

TCAT - Knoxville Certification of Immunization

Student's name:	Program of Enrollment:
PART I (TO BE COMPLETED BY	STUDENT)
Proof of MMR immunization is n	not required for the following reason:
 □ I attended a Tennessee public □ I was born prior to January 1, □ I am active duty or former mines 	e public or private high school in 1999 or after. (transcript attached) c or private high school in 2001 or after. (transcript attached), 1957. (copy of photo ID or birth certificate attached) ilitary personnel. (copy of DD214 or active military ID attached)
DART II /TO DE COMMISTER DV	CTUDENT!
PART II (TO BE COMPLETED BY Proof of MMR immunization is n	not required for the following reason:
Lock on the second of the boson	
 I refuse immunization becau perjury. Please attach staten 	se of religious doctrine. (Reason affirmed under the penalties of ment.)
IF	THE ABOVE IS CHECKED, PLEASE SIGN BELOW.
PART III—MMR (TO BE COMPLETED B Please circle the number that applies t	
	neasles vaccination since the age of 12 months: Month/year
2. Vaccination is medically contraindic	cated because of pregnancy, allergy to vaccine, etc. (Please list reasons.)
3. Patient had disease, as confirmed by Month/year	
4. Patient is immune to disease, as cor Comment	·
	ATTEST
Name of physician (Please print)	(Must be signed by an M.D. or D.O.)
Physician's signature	Date
Student's signature	Date

Revised: September 4, 2014

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 f	or the following reason:
 I attended a Tennessee public high school between 1999 second varicella vaccine dose from your physician office 	
□ I was born prior to January 1, 1980. (copy of photo ID or b	•
☐ I am active duty or former military personnel. (copy of DI	
IF THE ABOVE IS CHECKED, PLEASE SIG	GN BELOW.
PART II (TO BE COMPLETED BY STUDENT)	
Proof of varicella (chicken pox) immunization is not required f	or the following reason:
□ I refuse immunization because of religious doctrine. (Reas	son affirmed under the populties of
perjury. Please attach statement.)	son annined under the penalties of
IF THE ABOVE IS CHECKED, PLEASE SIG	GN BELOW.
PART III—VARICELLA (TO BE COMPLETED BY PHYSICIAN) Please circle the number that applies to this patient:	
riedse circle the number that applies to this patient.	
1. Patient has received two doses of varicella (chicken pox) vaccinati	on since the age of 12 months:
Month/year Month/	year
2. Vaccination is medically contraindicated because of pregnancy, al	lergy to vaccine, etc. (Please list reasons.)
3. Patient had disease, as confirmed by medical record:	
Month/year	
4. Detient is immune to disease as confirmed by laboratory.	
4. Patient is immune to disease, as confirmed by laboratory. Comment	
ATTEST	
(Must be signed by an M.D. o	
Name of physician (Please print)	
Office telephone	
Physician's signature	Date
Student's signature	Date

Revised: September 4, 2014



ENROLLMENT APPLICATION

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

	Full Legal Name			
	Last	First		Middle
	Address		City	
	County	State Zip		Address Gender: M F
o	Social Security	Date of Birth	Age	
ormati	Marital Status:Married	Single Preferred Phone N	umber:	
al Info	Race: Do you consider yourself	to be Hispanic/Latino/Spanish	origin?YesNo	0
Personal Information	Select one or more of the followAmerican Indian/Alaska NaAsianBlack or African American	ving racial categories to best de ativeNative Hawaiiar White		
	Citizenship status:US Citize	n or US National US Dua	Citizen US Perma	anent Resident or RefugeeOther
	US Forces Status:Currently	ServingPreviously Serving	Current Depende	ntN/A
	ALL MALES 18 OR OLDER MUST Not required to registered	=	-	
<u>`</u>	Education (insert highest level	of education completed):		
Prior Education/ Training	Name of last high school attend	led:		
r Educati Training	High school graduation date (m	m/yyyy): GE	D Diploma Date	
Prio	Are you seeking credit for pri	or education, training or wo	rk experience?	YesNo
E	Please review the campuses we Office Technology)	bsite and provide the program	name choice for caree	r training (Example: Administration
Program	When will you be available to e	nroll in class? Fall Sp	ringSummer	
	Do you plan to apply for financi	al aid?YesNo		

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.



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:MathReading (Date:) CPR Documentation (BLS for Healhcare 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 Healhcare Providers) COMPASS or ACT – Scores: Math Reading (Date:)
Truck Driving: MVR DOT Physical Valid Driver's License U.S. Citizenship / Residency
Staff Signature:
Date:

Revised: 6/29/2016