

Industrial Electricity

The Industrial Electricity is a **NCCER** program that utilizes classroom instruction and lecture, individualized modules, and hands-on experience at job sites to provide the student with the knowledge to be a residential electrician, pre-journeyman, journeyman, electrical maintenance worker, or electrical technician. Graduates of the program will have a strong foundation in the basic principles of electricity, including motor generator principles; meters; testing equipment and instruments; blueprint reading and math; residential wiring; National Electric Code; industrial wiring/distribution; related electronics; and shop management and records.

Program/Location	Length	Days	Time
Day Program/Knoxville Campus	12 Months	Monday-Friday	8:00 am—2:30 pm
Night Program/Knoxville Campus	12 Months	Monday-Friday	3:30 pm—10:00 pm

	Curriculum/Courses
INE 0001	Worker Characteristic
INE 1010	Orientation and Safety
INE 1020	Basic Principles and Meters
INE 1030	Basic Electronics
INE 1040	National Electrical Code I
INE 1050	Wiring
INE 4050	Drawings and Documentation
INE 0002	Worker Characteristic
INE 2010	National Electrical Code II
INE 2020	Motors and Transformers
INE 2030	Motor Control and Timers I
INE 0003	Worker Characteristic
INE 3010	Motor Control and Timers II
INE 3020	Installation Guidelines I
INE 4030	NEC Commercial-Industrial
INE 4040	Programmable Logic Controllers

Typical Job Opportunities

Electrical Companies Manufacturers Hospitals

Completion Award		Required Hours		
Electrician Helper	Certificate	432		
Electrician Apprentice Class II	Certificate	864		
Electrician Apprentice Class I	Diploma	1296		

Total Placement Rate 2017 = 89%

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



Industrial Electricity

Book, Tool, and Supply List

tion			Cost		Total
Tuition*		Ġ	1,169.00		TOtal
Technology Access Fee*		\$	67.00		
Student Activity Fee*		\$	10.00		
OSHA 10 Training		\$	25.00		
TOTAL		Ş	23.00		\$1,27
TOTAL					\$1,Z/
ıks	ISBN		Cost	Required	
National Electrical Code (NEC 2014 Handbook)	9781455905447	\$	186.00	х	
Electrical Level 1, 8th edition	9780133829594	\$	90.00	х	
EZ Tabs for the 2014 National Electrical Code	9781285200361	\$	18.00	х	
Electrical Systems Based on the 2014 NEC (w/CD)	9780826916419	\$	102.00	х	
TOTAL					\$39
plies	Needed By		Cost	Required	
Denim or Khaki Pants	First day of class	\$	35.00	х	
3 Dark Navy Short Sleeve Work Shirts	First day of class	\$	75.00	х	
Composite Toe Work Boots	First day of class	\$	140.00	х	
Hard Hat - Must have before able to do any live work projects	First day of class	\$	12.00	х	
Safety Glasses - Must have before able to do any live work projec	First day of class	\$	10.00	х	
Headphones	First day of class	\$	5.00	х	
Non programmable Calculator (that converts decimal to fraction)	First day of class	\$	20.00	х	
TOTAL					\$29
	Needed By m Graybar in Knox	ville	Cost 2, 1st Trim	Required ester kit #I	M2039749
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ProverLine 18-Pocket Electrician's Tool Pouch ProwerLine 18-Pocket Electrician's Tool Pouch ProwerLine Web Works Belt Tape Measure 25" (7.62 m) Magnetic Double Hook Balade Pocket Knife - Carbon Steel Sheepfoot, Spearpoint, & Scrateavy-Duty Multi-Bit Screwdriver/Nut Driver Conduit-Fitting and Reaming Screwdriver Magnetic Screwdriver with 32 Piece Tamperproof Bit Set Klein-Kurve® Wire Stripper/Cutter - Solid & Stranded Wire B" (203 mm) High-Leverage Diagonal-Cutting Pliers - Angled Head NM Cable Ripper - 8-14 AWG D" (229 mm) High-Leverage Side-Cutting Pliers - Fish Tape Pulling 500A AC Clamp Meter with Temperature #1 Square-Recess Tip Screwdriver 8" (203 mm) Round-Shank	First week of class	\$ \$ \$ \$ \$ \$ \$ \$ \$	2, 1st Trim 39.00 11.00 15.00 23.00 12.00 22.00 20.00 14.00 19.00 3.00 25.00 50.00	x x x x x x x x x x x x x x x x x x	M2039749
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PowerLine 18-Pocket Electrician's Tool Pouch PowerLine 18-Pocket Electrician's Tool Pouch PowerLine Web Works Belt Tape Measure 25" (7.62 m) Magnetic Double Hook B Blade Pocket Knife - Carbon Steel Sheepfoot, Spearpoint, & Scrateavy-Duty Multi-Bit Screwdriver/Nut Driver Conduit-Fitting and Reaming Screwdriver Magnetic Screwdriver with 32 Piece Tamperproof Bit Set Klein-Kurve* Wire Stripper/Cutter - Solid & Stranded Wire B" (203 mm) High-Leverage Diagonal-Cutting Pliers - Angled Head NM Cable Ripper - 8-14 AWG D" (229 mm) High-Leverage Side-Cutting Pliers - Fish Tape Pulling 500A AC Clamp Meter with Temperature #1 Square-Recess Tip Screwdriver 8" (203 mm) Round-Shank #2 Square-Recess Tip Screwdriver 8" (203 mm) Round-Shank B" (203 mm) Heavy-Duty Long-Nose Pliers - Side-Cutting	First week of class	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2, 1st Trim 39.00 11.00 15.00 23.00 12.00 22.00 20.00 14.00 3.00 25.00 50.00 7.00 20.00	x x x x x x x x x x x x x x x x x x x	M2039749
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Provided the Pricing Available Through Klein Tools \$460, from Provertine 18-Pocket Electrician's Tool Pouch ProwerLine Web Works Belt Tape Measure 25" (7.62 m) Magnetic Double Hook 18 Blade Pocket Knife - Carbon Steel Sheepfoot, Spearpoint, & Scrattery-Duty Multi-Bit Screwdriver/Nut Driver Conduit-Fitting and Reaming Screwdriver Magnetic Screwdriver with 32 Piece Tamperproof Bit Set Klein-Kurve® Wire Stripper/Cutter - Solid & Stranded Wire 8" (203 mm) High-Leverage Diagonal-Cutting Pliers - Angled Head NM Cable Ripper - 8-14 AWG 9" (229 mm) High-Leverage Side-Cutting Pliers - Fish Tape Pulling 600A AC Clamp Meter with Temperature #1 Square-Recess Tip Screwdriver 8" (203 mm) Round-Shank #2 Square-Recess Tip Screwdriver 8" (203 mm) Round-Shank 8" (203 mm) Heavy-Duty Long-Nose Pliers - Side-Cutting Straight-Claw Hammer - Heavy Duty 10" (254 mm) Pump Pliers 6-in-1 Tapping Tool 8" (203 mm) Adjustable Wrench Extra-Capacity 7-Piece Cushion-Grip Screwdriver Set Rare Earth Magnet Torpedo Level	First week of class	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2, 1st Trim 39.00 11.00 15.00 23.00 12.00 22.00 20.00 14.00 25.00 50.00 7.00 20.00 22.00 16.00 19.00 41.00 18.00	x x x x x x x x x x x x x x x x x x x	M2039749
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2nd Trimester					
Tuition			Cost		Total
Tuition*		\$	1,169.00		
Technology Access Fee*		\$	67.00		
Student Activity Fee*		\$	10.00		
TOTAL					\$1,246.00
Books	ISBN		Cost	Required	
Understanding Motor Contols, 2nd edition	9781111135416	\$	197.00	х	
Conduit Bending & Febrication (w/cd & quick reference)	9780826912671	\$	94.00	х	
Electrical Trainee Guide level 2, 8th edition	9780133830651	\$	130.00	х	
TOTAL					\$421.00
Tools	Needed By		Cost	Required	
Special Student Pricing Available Through Klein Tools \$731, fro.	m Graybar in Knox	ville	e, 1st Trim	ester kit #I	M2039750KIT
Tradesman Pro Organizer Hacksaw Electrician's Bag	First week of class	\$	67.00	х	
Assembled Aluminum Conduit Bender with #51427 Handle - 1/2"	First week of class	\$	25.00	х	
Assembled Aluminum Bender with #51427 Handle - 3/4" (19 mm)	First week of class	\$	32.00	х	
16" (406 mm) Pump Pliers	First week of class	\$	38.00	х	
Knockout Punch Set with Wrench	First week of class	\$	242.00	х	
10 pc 6" (152 mm)SAE Journeyman T-Handle Set with Stand	First week of class	\$	34.00	х	
8 pc 6" (152 mm) Metric Journeyman T-Handle Set with Stand	First week of class	\$	27.00	х	
6" (152 mm) Adjustable Wrench Extra-Capacity	First week of class	\$	18.00	х	
8" (203 mm) Adjustable Wrench Extra-Capacity	First week of class	\$	20.00	х	
10" Adjustable Wrench Extra Capacity	First week of class	\$	24.00	х	
8 pc Electrician's Hole Saw Kit	First week of class	\$	52.00	х	
Electrician's Mulitmeter	First week of class	\$	60.00	х	
Digital Circuit Breaker Finder	First week of class	\$	32.00	х	
Circuit Breaker Finder Accessory Kit	First week of class	\$	11.00	х	
1/8" (3 mm) Wide Steel Fish Tape - 125' (38 m)	First week of class	\$	38.00	х	
TOTAL					\$731.00
3rd Trimester					
Tuition			Cost		Total
Tuition*		ċ	1,169.00		TOLAT
Technology Access Fee*		\$	67.00		
Student Activity Fee*		\$	10.00		
TOTAL		7	10.00		\$1,246.00
TOTAL					Ş1,2 4 0.00
Books	ISBN		Cost	Required	
Electrical Level 3 Trainee Guide	9780133830828	\$	130.00	х	
Electrical Trainee Guide Level 4 8th edition	9780133823158	\$	130.00	X	
TOTAL	1.00100020100	Y	250.50		\$260.00
					Ţ200.00
Miscelleanous Cost			Cost	Required	
Graduation Supplies		\$	40.00	х	
TOTAL					\$40.00

\$6,368.00

TOTAL PROGRAM COST