



# 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

## Diplomas & Required Clock Hours

Certified Electrician Apprentice Level 3—1,296

## Certificate & Required Clock Hours

Certified Electrician Apprentice Level 2—864

Certified Electrician Apprentice Level 1—432

## Typical Job Opportunities

Electrical Companies

Manufacturers

Hospitals

**Total Completion Rate 2016 = 91%**

**Total Placement Rate 2016 = 83%**

## HOW TO APPLY

*All Documents Must be Presented Together to Apply*

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





## Industrial Electricity

### Book, Tool, and Supply List

1st Trimester				
Tuition		Cost	Total	
Tuition*		\$ 1,139.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
<b>TOTAL</b>				<b>\$1,216.00</b>

  

Books	ISBN	Cost	Required	
National Electrical Code (NEC 2014 Handbook)	9781455905447	\$ 186.00	x	
Electrical Level 1, 8th edition	9780133829594	\$ 90.00	x	
EZ Tabs for the 2014 National Electrical Code	9781285200361	\$ 18.00	x	
Electrical Systems Based on the 2014 NEC (w/CD)	9780826916419	\$ 96.00	x	
<b>TOTAL</b>				<b>\$390.00</b>

  

Supplies	Needed By	Cost	Required	
Denim or Khaki Pants	First day of class	\$ 35.00	x	
3 Dark Navy Short Sleeve Work Shirts	First day of class	\$ 75.00	x	
Composite Toe Work Boots	First day of class	\$ 140.00	x	
Hard Hat - Must have before able to do any live work projects	First day of class	\$ 12.00	x	
Safety Glasses - Must have before able to do any live work projec	First day of class	\$ 10.00	x	
Headphones	First day of class	\$ 5.00	x	
Non programmable Calculator (that converts decimal to fraction)	First day of class	\$ 20.00	x	
<b>TOTAL</b>				<b>\$297.00</b>

  

Tools	Needed By	Cost	Required	
<i>Special Student Pricing Available Through Klein Tools \$460, from Graybar in Knoxville, 1st Trimester kit #M2039749KIT</i>				
PowerLine 18-Pocket Electrician's Tool Pouch	First week of class	\$ 39.00	x	
PowerLine Web Works Belt	First week of class	\$ 11.00	x	
Tape Measure 25" (7.62 m) Magnetic Double Hook	First week of class	\$ 15.00	x	
3 Blade Pocket Knife - Carbon Steel Sheepfoot, Spearpoint, & Scr	First week of class	\$ 23.00	x	
Heavy-Duty Multi-Bit Screwdriver/Nut Driver	First week of class	\$ 12.00	x	
Conduit-Fitting and Reaming Screwdriver	First week of class	\$ 22.00	x	
Magnetic Screwdriver with 32 Piece Tamperproof Bit Set	First week of class	\$ 20.00	x	
Klein-Kurve® Wire Stripper/Cutter - Solid & Stranded Wire	First week of class	\$ 14.00	x	
8" (203 mm) High-Leverage Diagonal-Cutting Pliers - Angled Head	First week of class	\$ 19.00	x	
NM Cable Ripper - 8-14 AWG	First week of class	\$ 3.00	x	
9" (229 mm) High-Leverage Side-Cutting Pliers - Fish Tape Pulling	First week of class	\$ 25.00	x	
600A AC Clamp Meter with Temperature	First week of class	\$ 50.00	x	
#1 Square-Recess Tip Screwdriver 8" (203 mm) Round-Shank	First week of class	\$ 7.00	x	
#2 Square-Recess Tip Screwdriver 8" (203 mm) Round-Shank	First week of class	\$ 7.00	x	
8" (203 mm) Heavy-Duty Long-Nose Pliers - Side-Cutting	First week of class	\$ 20.00	x	
Straight-Claw Hammer - Heavy Duty	First week of class	\$ 22.00	x	
10" (254 mm) Pump Pliers	First week of class	\$ 16.00	x	
6-in-1 Tapping Tool	First week of class	\$ 18.00	x	
8" (203 mm) Adjustable Wrench Extra-Capacity	First week of class	\$ 19.00	x	
7-Piece Cushion-Grip Screwdriver Set	First week of class	\$ 41.00	x	
Rare Earth Magnet Torpedo Level	First week of class	\$ 18.00	x	
GFCI Receptacle Tester	First week of class	\$ 7.00	x	
High-Tension Hacksaw	First week of class	\$ 17.00	x	
<b>TOTAL</b>				<b>\$460.00</b>

  

Miscellaneous Cost	Cost	Required	
OSHA 10 Training	\$ 25.00	x	
<b>TOTAL</b>			<b>\$25.00</b>

All Costs are Estimated and Subject to Change Without Notice Revised: 5/3/2017

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

2nd Trimester				
Tuition		Cost	Total	
Tuition*		\$ 1,139.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
<b>TOTAL</b>				<b>\$1,216.00</b>
Books				
	ISBN	Cost	Required	
Understanding Motor Controls, 2nd edition	9781111135416	\$ 197.00	x	
Conduit Bending & Fabrication (w/cd & quick reference)	9780826912671	\$ 94.00	x	
Electrical Trainee Guide level 2, 8th edition	9780133830651	\$ 130.00	x	
<b>TOTAL</b>				<b>\$421.00</b>
Tools				
	Needed By	Cost	Required	
<i>Special Student Pricing Available Through Klein Tools \$731, from Graybar in Knoxville, 1st Trimester kit #M2039750KIT</i>				
Tradesman Pro Organizer Hacksaw Electrician's Bag	First week of class	\$ 67.00	x	
Assembled Aluminum Conduit Bender with #51427 Handle - 1/2"	First week of class	\$ 25.00	x	
Assembled Aluminum Bender with #51427 Handle - 3/4" (19 mm)	First week of class	\$ 32.00	x	
16" (406 mm) Pump Pliers	First week of class	\$ 38.00	x	
Knockout Punch Set with Wrench	First week of class	\$ 242.00	x	
10 pc 6" (152 mm)SAE Journeyman T-Handle Set with Stand	First week of class	\$ 34.00	x	
8 pc 6" (152 mm) Metric Journeyman T-Handle Set with Stand	First week of class	\$ 27.00	x	
6" (152 mm) Adjustable Wrench Extra-Capacity	First week of class	\$ 18.00	x	
8" (203 mm) Adjustable Wrench Extra-Capacity	First week of class	\$ 20.00	x	
10" Adjustable Wrench Extra Capacity	First week of class	\$ 24.00	x	
8 pc Electrician's Hole Saw Kit	First week of class	\$ 52.00	x	
Electrician's Multimeter	First week of class	\$ 60.00	x	
Digital Circuit Breaker Finder	First week of class	\$ 32.00	x	
Circuit Breaker Finder Accessory Kit	First week of class	\$ 11.00	x	
1/8" (3 mm) Wide Steel Fish Tape - 125' (38 m)	First week of class	\$ 38.00	x	
<b>TOTAL</b>				<b>\$731.00</b>
3rd Trimester				
Tuition		Cost	Total	
Tuition*		\$ 1,139.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
<b>TOTAL</b>				<b>\$1,216.00</b>
Books				
	ISBN	Cost	Required	
Electrical Level 3 Trainee Guide	9780133830828	\$ 130.00	x	
Electrical Trainee Guide Level 4 8th edition	9780133823158	\$ 130.00	x	
<b>TOTAL</b>				<b>\$260.00</b>
Miscellaneous Cost				
		Cost	Required	
Graduation Supplies		\$ 40.00	x	
<b>TOTAL</b>				<b>\$40.00</b>
<b>TOTAL PROGRAM COST</b>				<b>\$6,272.00</b>

All Costs are Estimated and Subject to Change Without Notice Revised: 5/3/2017

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

# 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: \_\_\_\_\_