



Diesel Powered Equipment Technology

The Diesel Powered Equipment Technology program provides students with the technical instruction and skill development to enable students to enter employment in truck, construction, agricultural equipment, and other related fields as technicians. By working in the diesel equipment shop and on actual diesel powered equipment, students are well prepared to enter the workforce after graduation. The Diesel Powered Equipment Technology program is accredited by the National Automotive Technicians Education Foundation (NATEF).

Program/Location	Length	Days	Time
Day Program/ Knoxville Campus	20 Months	Monday-Friday	8:00am—2:30 pm
Night Program/Knoxville Campus	20 Months	Monday-Friday	3:30 pm—10:00 pm

Course Outline

Orientation & Safety
 Technology Foundations
 OSHA 10 Training
 Tools and Fasteners
 Basic Diesel Theory
 Drive Trains
 Lubrication System
 Fuel Systems
 Electrical/Electronics
 ASE Test Preparation
 Welding and Cutting
 Brakes
 Cooling Systems
 Drive Trains
 Hydraulics
 Electronic Engine Controls
 Diesel Engines
 Cylinder Blocks
 Cylinder Head and Valve Train
 Suspension and Steering
 Heating and Air Conditioning
 Preventative Maintenance

Diploma & Required Clock Hours

Diesel Mechanic—2,160

Certificates & Required Clock Hours

Diesel Technician Assistant—1,728

Diesel Technician Apprentice—1,286

Diesel Engine Assembler—864

Preventative Maintenance Service Mechanic—432

Typical Job Opportunities

Heavy Vehicle Mechanic

Brake Mechanic

Engine Mechanic

Drive Line Mechanic

Accessories Installer

Placement Rate for 2016 = 91%

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
attached)***



Diesel Powered Equipment Technology

Book, Tool, and Supply List

1st Trimester				
Tuition		Cost	Total	
Tuition*		\$1,139.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
ASE Exam and Registration Fee		\$ 114.00		
TOTAL				\$1,330.00
Book	ISBN	Cost	Required	
CDX Medium/Heavy Duty Diesel System Bundle (includes below)	9781284110586	\$ 465.00		
<i>CDX Fundamentals of Medium/Heavy Diesel Engines</i>	9781284067057		x	
<i>CDX Fundamentals of Medium-Heavy Commercial Vehicle</i>	9781284041163		x	
<i>CDX Access Code Medium/Heavy (2 year access), 2014 NATEF ed</i>	9781284067309		x	
TOTAL				\$465.00
Supplies	Needed By	Cost	Required	
5 Dark Navy Blue Work Pants	First day of class	\$ 100.00	x	
5 Dark Navy Blue Long and/or short Sleeve Work Shirts	First day of class	\$ 100.00	x	
1 Short Dark Navy Blue Jacket with Pocket	First day of class	\$ 35.00	x	
Black or Brown Belt	First day of class	\$ 20.00	x	
Safety Toe Work Boots (oil resistant)	First day of class	\$ 140.00	x	
Safety Glasses (side panels)	First day of class	\$ 10.00	x	
TOTAL				\$405.00
Miscellaneous Cost		Cost	Required	
OSHA 10 Training		\$ 25.00	x	
TOTAL				\$25.00
2nd Trimester				
Tuition		Cost	Total	
Tuition*		\$1,139.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
ASE Exam and Registration Fee		\$ 114.00		
TOTAL				\$1,330.00

All Costs are Estimated and Subject to Change Without Notice Revised: 4/26/2017

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

Tools	Needed By	Required
1 Metric Allen Wrench Set 2mm-12mm	by 2nd trimester	x
1 Standard Allen Wrench Set .050"-3/8" (7/16"-1/2" optional)	by 2nd trimester	x
Cold Chisels 1/2", 5/8", & 3/4" Edges	by 2nd trimester	x
Electrical Crimper/Stripper Pliers	by 2nd trimester	x
Adjustable Joint Pliers	by 2nd trimester	x
Locking Pliers	by 2nd trimester	x
Needle Nose Pliers	by 2nd trimester	x
Side Cutter Pliers	by 2nd trimester	x
Slip-joint Pliers	by 2nd trimester	x
3/16"-3/8" Pin Punch	by 2nd trimester	x
3/16"-3/8" Starter Punch	by 2nd trimester	x
Aligning Punch Set	by 2nd trimester	x
Brass Punch	by 2nd trimester	x
Center Punch	by 2nd trimester	x
3/8"-3/4" Standard Flare Nut Wrench	by 2nd trimester	x
7mm-19mm Metric Flare Nut Wrench	by 2nd trimester	x
1" Phillips Screwdriver #2	by 2nd trimester	x
6" Phillips Screwdrivers #1 and #2	by 2nd trimester	x
12" Phillips Screwdriver #3	by 2nd trimester	x
16" Rolling Wedge Bar 90° 9/16" Diameter (Lady's Foot Pry Bar)	by 2nd trimester	x
3 Ball Pein Soft Face Hammers, 12 oz, 16 oz, & 24 oz	by 2nd trimester	x
Mechanics Adjustable Inspection Mirror	by 2nd trimester	x
Magnetic Pick Up with Side Extension	by 2nd trimester	x
Digital Multimeter (Minimum 10 Meg/Ohm Impedance)	by 2nd trimester	x
Roll-a-Way Tool Box with Complete Top & Bottom (6 drawer mini)	by 2nd trimester	x
3 Files with Handles, 12" Fine, 12" Coarse, & 12" Half Round	by 2nd trimester	x
Socket Set 3/8" Drive	by 2nd trimester	
3/8"-3/4" US Shallow Depth (12 pt)	by 2nd trimester	x
3/8"-3/4" US Deep (6 pt)	by 2nd trimester	x
10mm-19mm Metric Shallow (12 pt)	by 2nd trimester	x
10mm-19mm Metric Deep (6 pt)	by 2nd trimester	x
Short, Medium, & Long Extensions	by 2nd trimester	x
Ratchet Handle	by 2nd trimester	x
Universal Joint	by 2nd trimester	x
Socket Set 1/4" Drive	by 2nd trimester	
3/16"-9/16" US Shallow	by 2nd trimester	x
3/16"-9/16" US Deep	by 2nd trimester	x
4mm-15mm Metric Shallow	by 2nd trimester	x
4mm-15mm Metric Deep	by 2nd trimester	x
Short, Medium, & Long Extensions	by 2nd trimester	x
Ratchet Handle	by 2nd trimester	x
Universal Joint	by 2nd trimester	x
Socket Set 1/2" Drive	by 2nd trimester	
7/16"- 1 1/4" Shallow, Impact	by 2nd trimester	x
7/16"-1 1/4" Deep, Impact	by 2nd trimester	x
10mm-27mm Shallow, Impact	by 2nd trimester	x
10mm-27mm Deep, Impact	by 2nd trimester	x
Short, Medium, & Long Extensions	by 2nd trimester	x

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Breaker Bar	by 2nd trimester	x	
Ratchet Handle	by 2nd trimester	x	
Universal Joint	by 2nd trimester	x	
Proto Tools Blackhawk	by 2nd trimester		
Combination Wrenches Standard 3/8-1-1/4" & Metric 6mm-25mr	by 2nd trimester	x	
1 Scrapper 1" Wide or Larger	by 2nd trimester	x	
6 Torx Screwdrivers T10, T15, T20, T25, T27 & T30	by 2nd trimester	x	
5 Blade Screwdrivers 1", 6", 9" 12", & Offset	by 2nd trimester	x	
Hacksaw	by 2nd trimester	x	
25' Tape Measure	by 2nd trimester	x	
TOTAL			\$1,900.00

3rd Trimester

Tuition	Cost		Total
Tuition*	\$1,139.00		
Technology Access Fee*	\$ 67.00		
Student Activity Fee*	\$ 10.00		
ASE Exam and Registration Fee	\$ 114.00		
TOTAL			\$1,330.00

4th Trimester

Tuition	Cost		Total
Tuition*	\$1,139.00		
Technology Access Fee*	\$ 67.00		
Student Activity Fee*	\$ 10.00		
ASE Exam and Registration Fee	\$ 114.00		
TOTAL			\$1,330.00

5th Trimester

Tuition	Cost		Total
Tuition*	\$1,139.00		
Technology Access Fee*	\$ 67.00		
Student Activity Fee*	\$ 10.00		
ASE Exam and Registration Fee	\$ 114.00		
TOTAL			\$1,330.00

Miscellaneous Cost	Cost	Required	
Graduation Supplies	\$ 40.00	x	
TOTAL			\$ 40.00
TOTAL PROGRAM COST			\$9,485.00

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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 _____



TENNESSEE COLLEGES OF APPLIED TECHNOLOGY

ENROLLMENT APPLICATION

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

Personal Information	<p>Full Legal Name</p> <p>_____</p> <p style="text-align: center;">Last First Middle</p> <p>Address _____ City _____</p> <p>County _____ State _____ Zip _____ Email Address _____</p> <p>- - / / Gender: <input type="checkbox"/> M <input type="checkbox"/> F</p> <p>Social Security _____ Date of Birth _____ Age _____</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 <input type="checkbox"/> Native Hawaiian/Pacific Islander</p> <p><input type="checkbox"/> Asian <input type="checkbox"/> White</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 MUST be registered with Selective Service. Have you registered for Selective Service?</p> <p><input type="checkbox"/> Not required to registered <input type="checkbox"/> Registered <input type="checkbox"/> Required to register, but not registered</p>
Prior Education/ Training	<p>Education (insert highest level of education completed): _____</p> <p>Name of last high school attended: _____</p> <p>High school graduation date (mm/yyyy): _____ GED Diploma Date _____</p> <p><i>Are you seeking credit for prior education, training or work experience?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
Program	<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.



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: _____