



## Associate of Applied Science Degree

Credit Hours Required for Graduation:  
Associate of Applied Science Degree: ..... 70.5

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course listing



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Skilled diesel technicians are in high demand! Employers contact SCC almost daily, seeking graduates who are needed now! The demand for qualified technicians will continue as long as agricultural equipment is sold, used and requires service or repair. SCC has a long tradition of providing students with skills that allow them to start as service technicians and continue to learn new skills as they grow within the business.



## SCC is the Right Choice

Our brand-new Crete Carrier Diesel Technology & Welding Center is one of the finest facilities in the entire region and includes classrooms and labs to teach industry best practices and technical training.

- Our program graduates find employment in construction equipment, railways, aerospace, and manufacturing industries.
- You'll participate in a cooperative experience and gain 300 on-the-job work hours at a modern service and repair business as part of a summer course. You'll learn valuable technician and safety training on live customer projects in a real-world situation.

### New state-of-the-art facilities include:

- Contamination control measures for machinery and technicians
- A wash bay large enough to accommodate a combine harvester with duals or semi-tractor for contamination control
- Spill control and used fluid/filter recycling, plus new hydraulic and engine oil dispensed through a closed system
- Floor scrubber operation for all work areas
- Combined classroom/lab spaces for component studies
- Large-screen interactive media stations are displayed in lab spaces for in-house or worldwide connectivity with training resources
- State-of-the-art welding training center supports numerous programs on the Milford Campus

### Additional certifications available:

- Lift Truck Operator certification.
- A/C Refrigerant Handling certification.



### Top Career Options

- Ag Equipment Technician
- Construction Equipment Technician

### Graduate Earnings

Recent graduates report an average starting salary of \$36,712 per year.

### 2020-2021 Resident Estimated Expenses

Tuition/Fee Rate Per Credit Hour	\$111
Resident Tuition/Fees	\$7,825.50
Books	\$2,245
Supplies	\$407
Tools	\$5,789
Special Fees	\$35
Uniforms	\$100
<b>Total:</b>	<b>\$16,401.50</b>
Non-Resident Tuition/Fee Rate Per Credit Hour	\$132
Non-Resident Tuition/Fees	\$9,306

# Diesel-Ag Equipment Service Technology Program - Required Basic Tool List

Students are required to use approved eye protection and safety-toe boots or shoes during all lab activities and while participating in Cooperative Education/Internship.

## 1ST SEMESTER

### PPE (PERSONAL

#### PROTECTIVE EQUIPMENT)

- \*1 Safety Eyewear (Z-87 Approved)
- \*1 Hearing Protection (Ear muffs of Ear canal plugs)
- \*\*\*\*1 Pair Safety Toe Boots or Shoes

### TOOL CART

- 1 Tool Cart - lockable (max. size: 30" wide X 18" deep X 40" tall)

### ELECTRICAL TOOLS

- \*1 Fluke Model 87 Digital Multimeter (NO SUBSTITUTES)
- 1 Electrical Pliers, Wire Crimper/Cutter/Stripper
- 1 Wire Type Spark Plug Gage -Standard Ignition
- 1 Wire Type Spark Plug Gage -Electronic Ignition
- \* 1 - Electrical Test Lead Kit 802 651 151
- \* 1 - Jumper Kit #80265115
- 1 Penlight

### PLIERS

- 1 Combination Pliers
- 1 6" Needle Nose Pliers
- 1 7" Diagonal Pliers

- 1 Water Pump or Channel Lock Pliers (12" minimum)
- 1 4" Vise Grip Pliers w/ Cutter
- 1 6" Vise Grip Longnose Pliers
- 1 10" Vise Grip Pliers w/ cutter
- 1 Flat-Nose Snap Ring Pliers - narrow tip
- 1 Flat-Nose Snap Ring Pliers - wide tip

### HAND WRENCHES

- 1 Allen Wrench Set-English
- 1 Metric Allen Wrench Set
- 1 Ignition Wrench Set (7/32" - 3/8" range)
- 1 Combination Wrenches (3/8" to 1 1/4")

### SOCKET WRENCHES

- 1 1/4" Drive Socket Set (1/4" to 1 1/2") -6 Point, including Ratchet, Short Extension & Drive Handle & Universal Joint
- 1 3/8" Drive Socket Set (3/8" to 7/8") - 12 POINT, INCLUDING Ratchet, 3" & 5" Extensions, Flex Handle, Speed Handle and Universal Joint
- 1 1/4" to 3/8" Adapter

- 1 3/8" to 1/2" Adapter
- 1 1/2" to 3/8" Adapter
- 1 1/2" Drive Socket et (3/8" to 1 1/4" - 12 point, including Ratchet, 3" & 6" Extensions, Flex Handle, Speed Handle and Universal Joint
- 1 1/2" Drive Deep Well Sockets, 3/8" to 7/8", 12 point
- 1 3/8" Drive Universal Socket Set, Shallow 6-point, (7/16" to 3/4")
- 1 3/8" Drive Socket Set, Deep, 6-point, (1/4" to 7/8")
- 1 1/4" Drive Metric 6-point Socket Set (5-14mm)

### CUTTING TOOLS

- 1 Hacksaw w/Blades
- 1 10" Half Round File w/ Handle
- 1 10" Single Cut Mill Bastard File w/Handle
- 1 8" x 5/16" Round File w/ Handle
- 1 File Card
- 1 Gasket Scraper

### HAMMERS

- 1 Short Handle Machine Hammer - 4 or 5 lb.
- 1 1 lb. Ball Peen Hammer
- 1 Compothane "Dead Blow" Hammer, 2 or 3 lb.

### PRYING TOOLS

- 1 'O' Ring Tool
- 1 Rolling Head Bar (6" to 20")

### MEASURING

- 1 0 to 1" Micrometer (Non-Digital)
- 1 .0015" - .030" Feeler Gauge Set
- 1 Dial Indicator w/Magnetic Base (1" Travel Indicator)
- 1 English Thread Pitch Gage
- 1 Metric Thread Pitch Gage
- 1 40-200 in. lbs. 1/4" Drive Torque Wrench
- 1 6" Steel Rule
- 1 Scribe
- \*\* 1 - Screw Sizer

### SCREWDRIVERS

- 1 1 1/2" Flat Tip Screwdriver
- 1 2 7/8" Flat Tip Screwdriver
- 1 4" Flat Tip Screwdriver
- 1 6" Flat Tip Screwdriver
- 1 8" Flat Tip Screwdriver
- 1 No. 1 Phillips Screwdriver
- 1 No. 2 Phillips Screwdriver

- 1 No. 3 Phillips Screwdriver
- 1 No. 4 Phillips Screwdriver
- 1 Screwdriver, Flat Tip, Pocket, .025" tip, 4 3/4" Long (Snap-On®SDD2240 or equivalent)
- 1 Screw Extractor Set

### PUNCHES / CHISELS

- 1 Brass Drift Punch Set 3/8" to 1/2"
- 1 Center Punch
- 1 1/8" Pin Punch
- 1 5/32" Pin Punch
- 1 3/16" Pin Punch
- 1 1/4" Pin Punch
- 1 1/8" Starting Punch
- 1 1/4" Starting Punch
- 1 3/8" Cold Chisel
- 1 1/2" Cold Chisel
- 1 Bearing Race Punch (MAC PB39L or equivalent)
- 1 Cotter Pin/Seal Puller (Snap-On® #S59094B or equivalent)

### SUPPLIES:

\*Calculator (4-function), Padlock for tool box, Arc Welding Gloves, and Electrical Test Kit (#80265115) in the Campus Store.  
Program shirt and sponsoring employer uniform.

## 2ND SEMESTER

### TOOL BOX

- 1 Roll-A-Way Tool Box (Top Chest Optional) (Maximum 55" long - 55" includes hang/add on boxes)

### PPE

- Students are required to use safety-toe boots or shoes while participating in lab and during cooperative Education/Internship.

### PLIERS

- 1 Set of 4 Internal/External Snap Ring Pliers. Tip Diameters: .038, .047, .070, .090

### HAND WRENCHES

- 1 6 Point Flare Nut Wrench 1/4" - 5/16"
- 1 6 Point Flare Nut Wrench 3/8" - 7/16"
- 1 6 Point Flare Nut Wrench 1/2" - 9/16"
- 1 6 Point Flare Nut Wrench 5/8" - 3/4"
- 1 Metric Combination Wrench Set (8mm to 32mm)

### SOCKET WRENCHES

- 1 3/8" Drive Torque Wrench (5ft.lbs. to 75 ft.lbs.)
- 1 1/2" Torque Wrench (150 ft. lb. minimum)
- 1 3/8" Drive 3/4" Flare Nut Socket - Snap-On®only FRXM241
- 1 3/8" Drive 17mm Flare Nut Socket - Snap-On®only FRXM17

- 1 3/8" Drive Metric Socket Set (8mm to 19mm)
- 1 1/2" Drive Metric Socket Set (10mm to 27mm + 30mm & 32mm)
- 1 1/4" & 3/8" Drive Torx Drivers (T-8 to T-55) (Snap-On®212EFTXY or equivalent)
- 1 1/2" Drive 19mm Deep Socket-12 point
- 1 Allen Head Socket Set (English) (3/8" Drive)
- 1 Allen Head Socket Set (Metric) (3/8" Drive)
- 1 1/4" & 3/8" Drive Torx Socket Set (E4 to E18) (Snap-On®210AFLEY or equivalent)
- 1 1/4" & 3/8" Drive Torx Bit Set (T8 to T55) (Snap-On®212EFTXY or equivalent)

### DRILLS

- 1 Twist Drill Index 1/16" to 1/2" by 64ths
- 1 3/8" Variable Speed/ Reversible Drill (Electric or Air)

### MEASURING

- 1 Tire Pressure Gauge (100psi capacity)

### PUNCHES/CHISELS/PRYBARS

- 1 16" Pinch Bar
- 1 18" Pry Bar
- 1 Roll Pin Punch Set - 12 piece set (Snap-On® PPR712K or equivalent)

### HVAC

- 1 Air Conditioning Service Wrench (1/4" to 3/16" square drive on one end w/1/2" to 9/16" Hex Wrench on opposite end)
- 1 Air Conditioning Thermometer (0o to 220o)
- 1 R 134A Can Tap Valve (Snap-On® ACT413 or equivalent)

### GENERAL PURPOSE

- 1 Fender/Engine Cover
- 1 Utility Light w/10ft. Cord (Troublelight)
- 1 'O' Ring Pick Set (Snap-On®A5A204A or equivalent)

**TOOL REQUIREMENTS FOR 3RD & 4TH SEMESTERS ARE THE SAME AS THOSE REQUIRED FOR 1ST & 2ND SEMESTERS. THE FOLLOWING TOOLS ARE**

### OPTIONAL:

- 1 3/8" Air Ratchet
- 1 3/8" Air Impact Wrench
- 1 3/8" Impact Socket Set (3/8" to 7/8")
- 1 1/2" Air Impact Wrench
- 1 1/2" Impact Deep Socket Set (1/2" to 1 1/2")
- 1 1/2" Impact Socket Set (3/8" to 1 1/4")
- 1 Angle Head Open End Wrench Set (3/8" to 1 1/4")
- 1 Metric Angle Head Open End Wrench Set (10mm to 19mm)
- 1 3/8" Drive Crowfoot Open End Wrench Set (3/8" to 2")
- 1 3/8" Drive Metric Deep Socket Set (6mm to 19mm)
- 1 1/2" Drive Metric Deep Socket Set (10mm to 20mm)
- 1 Air Hammer Set, Medium Duty (Snap-On®PHG2045CH4 or equivalent)
- 1 Bushing Driver Set (Snap-On®A157C or equivalent)
- 1 Slide Hammer (Snap-On®#CJ250 or equivalent)
- 1 Air-Conditioning R-134A Gauge/Manifold/Hose set
- 1 Creeper
- 1 3/8" Drive Impact Swivel Socket Set (3/8" to 9/16")

\* May be purchased at the SCC Milford Campus Store. \*\* May be purchased at the Milford Campus Parts Store. \*\*\* Must be purchased off campus.