

Personality + Career



Students in the John Deere Construction and Forestry Equipment Tech program are analytical thinkers and have good communication skills. They have a natural mechanical ability, can use the latest technology, computers, and are detail oriented. They are good team players, reliable, confident and are committed to completing the job right.

Program	Credential	What do students learn in the program?	What do students earn?	Career Opportunities	Students will have completed the following certifications at the time of graduation.	Required Tools, Supplies, and Uniforms
John Deere Construction & Forestry Equipment Tech	Associate of Applied Science	Students learn operation, diagnostics, service, and repair of John Deere construction and forestry equipment, including engines, power trains, hydraulics, electrical, and electronic systems. Servicing of air-conditioning systems and refrigerant handling, forklift operation, use of tools, shop equipment, basic welding skills and safety are taught. John Deere products and service department procedures, utilization of Service Advisor and parts catalogs also are covered.	\$32.70 per hour, or \$68,016 annually	Entry-level Construction Equipment Technician at a John Deere Construction & Forestry Equipment dealer	Forklift Operator Certification ASE AC System Repair and Refrigerant Handling John Deere University Pre-qualification Courses for Capstone	Tools are required. Refer to: Required Tool List A uniform is required and is provided by the student's sponsoring dealer.



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- ▶ GAP Assistance Program - southeast.edu/gap
- ▶ Children of State Teammate Tuition Reimbursement Program - southeast.edu/children-of-state-teammate-tuition-reimbursement-program



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2024-2025 / » southeast.edu

John Deere Construction & Forestry Equipment Tech



John Deere construction equipment is used in numerous types of earthmoving, including road building, underground utilities, site development, and residential construction. SCC's John Deere Construction & Forestry Equipment Tech program teaches students theory of systems operation, troubleshooting, diagnostics, and repair procedures. Students become familiar with the John Deere C&F equipment product line, gain knowledge of dealership operation, develop customer service skills, and know the importance of productivity and professionalism.

As one of the few programs of its kind in the United States, SCC is centrally located in the heartland. Students come from all over the country to learn at the SCC Milford Campus due to the high emphasis on technical, hands-on education.

Program Contact Information

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The SCC Experience

- » Students receive training specific to John Deere construction and forestry equipment. Throughout the program students work toward becoming John Deere Certified Technicians. In addition to the Deere C&F Tech courses at SCC, students have access to John Deere University (JDU), an online resource based with John Deere. Completing short online JDU courses qualifies the student to attend capstone certification classes through their dealership. Upon graduation the student will be prepared to attend and successfully achieve their capstones, adding value to them in the workforce.
- » The John Deere Construction and Forestry Equipment Tech program at SCC is a blend of technical classroom training and hands-on learning. The opportunity to take information and knowledge acquired in the classroom and directly apply it to hands-on lab activities brings with it a higher level of understanding, skill development and confidence. Hands-on learning develops experience, is challenging and it's fun.
- » During a Cooperative Experience course, a Deere C&F Tech instructor will work with the student and their sponsoring dealership to develop a good working relationship and a clear line of communication. Students go to work to gain hands-on experience on live projects, learn from seasoned technicians, and are exposed to real-world experiences at a repair shop. Many dealerships offer incentives such as scholarships, tuition reimbursement and tool assistance with the intention of students returning to the dealership to work after graduating.
- » John Deere and John Deere Construction and Forestry Equipment dealers provide top-of-the-line equipment for classroom and lab experiences, giving students a strong advantage as they enter the workforce.



Related Programs at SCC:

- Agriculture Management & Production (Agronomy focus)
- Automotive Technology
- Diesel-Ag Equipment Service Technology
- Diesel Technology-Truck
- Ford Automotive Student Service Educational Training Program
- General Motors Automotive Service Educational Program
- John Deere Tech
- Powersports Technology
- Precision Agriculture
- Professional Truck Driving
- Technical Skills Instructor

Program	Credential	Location	Credit Hours	Tuition/Fees*	Books/Fees/Supplies	Tools	Total Cost*	Starting Term(s)	Number of Semesters Required - Full Time	Class Schedule
John Deere Construction & Forestry Equipment Tech	Associate of Applied Science	Milford	65.5	R- \$8,057 NR- \$9,432	\$1,040	\$9,500	R- \$18,597 NR- \$19,972	Fall	4	Monday – Thursday: 8 am–4 pm Friday: 8 am–Noon

*R=Resident, NR=Non-resident. Costs listed are estimates and are subject to change based on the market price of books, supplies, tools, uniforms, etc. Estimated costs also include tuition and fees. Additionally, days/times of week for class, lab, clinical/practicum are subject to change based on curriculum, facilities, instructor, and site availability. Actual program schedules will be provided prior to each enrolled term.

No summer term is required for full-time students. Neither a part-time schedule nor online classes are available for this dealership program.

TOOLS

Many tools are provided and students are only asked to purchase minimum tools in their first term, giving them time to explore and learn. Students then add to tools in future semesters. Tools are an investment in a student's career and SCC works with a variety of tool vendors to give students options. Many vendors offer students a significant discount. Students can also purchase tools from other vendors not associated with the College. Program faculty and advisors will provide students with specific information related to tools prior to the start of their first semester.

During the first week of each semester, tool vendors come to campus and provide students with options to buy single tools or tool sets based on program needs. Faculty will be available to help students make selections based on course and program needs.

John Deere Construction & Forestry Equipment Tech - Required Basic Tool List

Note: A tool storage cart and a limited tool set is provided by the College during 1st semester. Refer to the list of ****tools to bring at the beginning of 1st semester.**

All remaining 1st and 2nd semester tools are required to be with the student at the beginning of 2nd semester.

A dealership supplied laptop loaded with Service Advisor Local Is recommended, not required. Speak with your sponsoring dealership representative.

TOOLS REQUIRED FOR 1ST SEMESTER

ELECTRONIC TEST EQUIPMENT

- Fluke Model 87 or 88 Multimeter. (No Substitutions.)**

MISCELLANEOUS

- Tool bag 16" limit**
- Clear Lens Safety Glasses (Must meet Z87 specifications.)**
- Hearing Protection**
- Pad Lock**
- Air Conditioning Duct Thermometer**
- Telescoping Magnet**
- Small Flashlight or Penlight**
- Pistol Grip Blow Gun W/ Rubber Tip**
- Battery Terminal Spreader Pliers**
- Battery Post/Terminal Cleaning Brush**
- Small Wire Brush**
- 10" Wire Brush**
- Pick Set (4 Piece) Standard **
- Telescoping Inspection Mirror
- Gasket Scraper 1" Wide
- Air Chuck for tire inflation
- Tire Pressure Gauge 100 PSI capacity
- Butane Mini Torch

MEASURING EQUIPMENT

- 6 Inch Steel Ruler Combination 1 mm & 1/64th" graduations**
 - Thread Pitch Gauge Set SAE**
 - Thread Pitch Gauge Set Metric**
 - Flat Feeler Gauge Set .0015"-.030"***
 - Angle Feeler Gauge Set .005"-.030"***
 - Dial Indicator 1" Travel W/ Heavy Duty Magnetic Base**
 - Dial Caliper 6" Stainless Steel W/ Graduations in SAE and Metric**
- #### PLIERS
- Electrical Pliers/Cutter/Stripper/Crimper**
 - 14" Flat Nose Snap Ring Pliers Narrow Tip 1.5" Minimum Opening**
 - 14" Flat Nose Snap Ring Pliers Wide Tip 1.5" Minimum Opening
 - Convertible Internal/External Snap Ring Pliers Set
 - 8" Slip Joint Pliers
 - 7" Diagonal Cutters
 - 7" Needle Nose Pliers
 - 10" Curved Jaw Locking Pliers
 - 5" Curved Jaw Locking Pliers
 - 6" Needle Nose Locking Pliers

HAMMERS/PUNCHES/CHISELS

- Ball Peen 16 oz.**
 - Center Punch**
 - Punch and Chisel Set (Min 12 Pc)
- #### CUTTING, DRILLING, MILLING
- Twist Drill Index 1/16" to 1/2" Increments of 1/64ths**
 - 10" Half Round File with handle**
 - 10" Single Cut Mill File with handle**
 - 8" X 5/16" Round File with Handle**
 - File Card**
 - Hacksaw with blades

SCREW DRIVER SETS INCLUDING

- Slotted 3/16", 1/4", 5/16", w/ 1/4" Stubby
 - Phillips #1, #2, #3 w/ #2 Stubby
 - Torx Drivers T8-T30
- #### WRENCHES
- Combination Wrenches 1/4"-15/16" 12Pt
 - Combination Wrenches 8-19mm 12Pt
 - Hex Key Wrench Set SAE
 - Hex Key Wrench Set Metric

1/4" DRIVE

- Socket Set 3/16"- 9/16" Shallow 6 point
- Socket Set 3/16"- 9/16" Deep 6 point
- Socket Set 5-14mm Shallow 6 point
- Socket Set 5-14mm Deep 6 point
- Extensions 2", 4",
- Ratchet
- Screw Driver Type Drive Handle
- Universal Joint
- 1/4" to 3/8 Adapter

3/8" DRIVE

- 3/8" Drive Torque Wrench 100 Ft.Lb.**
- Socket Set 5/16"- 15/16" Shallow 12pt
- Socket Set 5/16"- 15/16" Deep 6pt
- Socket Set 8-19mm Shallow 12pt
- Socket Set 8-19mm Deep 6pt
- Extensions 3", 6", 12"
- Ratchet Standard Length
- Ratchet Long Flex Head
- Speed Handle
- Universal Joint
- 0-150 In-Lb Torque Wrench Dial or Beam Type

ADDITIONAL TOOLS FOR 2ND SEMESTER

TOOL STORAGE

- Rolling Tool Storage Box (59" Length Limit)

MISCELLANEOUS

- Shop Work Light
- Open Barrel Electrical Terminal Crimpers
- Electrical Terminal Removal Tool Set

1/2" DRIVE

- Socket Set 1/2"- 1 1/4" Impact Shallow
- Socket Set 1/2"- 1 1/4" Impact Deep
- Socket Set 10-32mm Impact Shallow
- Socket Set 10-32mm Impact Deep
- Extensions 3", 6", 12"
- Ratchet Standard Length
- Ratchet Long Flex Head 24"
- Breaker Bar 30" or longer
- Impact Universal Joint
- Impact 3/8"-1/2" Adapter
- 1/2"-3/8 Adapter
- 1/2" Drive Torque Wrench 250 Ft. Lb.

WRENCHES

- Combination Wrenches 1"-1 1/2" 12Pt
- Combination Wrenches 20-36mm 12Pt
- Double End Flare Nut Wrenches 3/8"- 7/8"
- Double End Flare Nut Wrenches 9-21mm
- 12" Adjustable Wrench
- 24" Adjustable Wrench
- Adjustable 3"-6" Oil Filter Pliers
- Heavy Duty Oil Filter Strap Wrench

HAMMERS

- Sledge 3 or 4LB
- Ball Peen 32oz.
- Dead Blow 3.5LB (56oz.) Minimum

PRYBARS

- 12", 16", 21" Lady Foot Rolling Head Bar
- 16", 24" Angled End Prybar

SOCKETS

- 3/8 Drive Flex Impact 10-19mm 6Pt
- 3/8 Drive Flex Impact 3/8"-3/4" 6Pt
- Torx Bit Sockets T10-T60
- SAE Hex Key Sockets 1/8"-5/8"
- SAE Hex Key Sockets 5-19mm

PUNCHES

- 3/4" Diameter Brass Drift
- 5/8" X 20" Bearing Race Punch
- 12" Long Drift Punch

PLIERS

- 12" Adjustable Joint Pliers
- Long Reach Needle Nose Pliers Set 3 Piece

WELDING EQUIPMENT

- Burn Jacket
- Gauntlet Style Welding Gloves
- MIG Welding Pliers
- Auto Darkening Welding Helmet W/Selectable Modes
- Chipping Hammer W/Wire Brush

ADDITIONAL RECOMMENDED TOOLS

- 3/8" Power Impact Wrench
- 1/2" Power Impact Wrench
- 1/2"-3/4" Impact Drive Adapter
- 1/2" Cordless Drill
- Die Grinder w/Cut Off Wheel and Burring Bits
- Air Hammer w/Bits
- Inverted Torx Sockets
- Crows Feet Sockets SAE & Metric
- Hydraulic Cylinder Cup Seal Installer Set
- Small Oring Spoon set
- Infrared Thermometer Gun
- 36" Pry Bar
- 24" or 30" Alignment Prybar
- SAE Ratcheting Wrenches
- Metric Ratcheting Wrenches
- 16" Adjustable Joint Pliers
- 1/2" Drive Chrome Sockets
- Combination Wrenches 1 9/16"- 2"
- Stubby Combination Wrenches 3/8"-3/4"
- Stubby Combination Wrenches 10-19mm
- Open End Angled Wrenches 3/8"-2"
- Open End Angled Wrenches 10-27mm
- R134A Air Conditioning Manifold Gauge Set