



DEERE CONSTRUCTION & FORESTRY EQUIPMENT

Associate of Applied Science Degree

MILFORD CAMPUS

www.southeast.edu/DeereConstructionTech



We have a great partnership with Deere Construction & Forestry, and this program prepares students to be entry-level service technicians within the dealerships. Graduates typically continue employment with their sponsoring dealerships. Each student spends five quarters on campus and two quarters working in a sponsoring Deere Construction & Forestry dealership. John Deere University Levels 1 & 2 Construction & Forestry Equipment classes must be successfully completed to qualify for graduation. These classes are assigned during the student's training.

Course offerings and prerequisites will be determined by the program. A grade of "C" or higher in all JDCE classes is required to progress through the program.

Deere Construction & Forestry Equipment Tech courses:

Course #	Course title	Credit hrs	Optional:	
JDCE1130	Deere Orientation	4.5	TRUK1101 CDL-Class A Training	3.5
JDCE1131	Deere Fundamentals & Safety	5.5		
JDCE1133	Deere HVAC	5.5		
JDCE1134	Deere Electrical/ Electronics I	9.0		
JDCE1340	Deere Theory of Engine Operation	7.0		
JDCE1341	Deere Fuel Systems	3.5		
JDCE1342	Deere Engine Repair	8.5		
JDCE1343	Deere Electrical/ Electronics II	7.0		
JDCE1441	Deere Advanced Fuel Systems & Engine Diagnostics	6.0		
JDCE1901	Dealer Cooperative Experience	12.0		
JDCE2550	Deere Mechanical Power Trains	7.0		
JDCE2551	Deere Hydraulics	6.0		
JDCE2552	Deere Hydrostatic Drives	6.0		
JDCE2760	Deere Back Hoes/ Landscape Loaders	3.0		
JDCE2761	Deere Excavators	5.0		
JDCE2762	Deere Crawler Dozers/ Loaders	5.0		
JDCE2763	Deere Motor Graders	3.5		
JDCE2764	Deere Four Wheel Drive Loaders	4.0		
JDCE2765	Deere Skid Steer Loaders	1.5		
JDCE2901	Dealer Cooperative Experience	12.0		
WELD1185	Diesel Truck, JDAT & JDCE Welding	1.5		
WELD1188	Deere Welding II	1.0		
WELD2188	Deere Welding III	1.0		
		125.0 hours		

General Education Requirements:

Contact your program advisor to select general education courses from each category which will meet your program's graduation requirements. See the General Education pages online for a complete list.

- (One class from each area below).
- Oral Communications 4.5
 - Written Communications 4.5
 - Science 6.0
 - PHYS1150 Descriptive Physics 9.0
- (Plus two classes from Mathematics, Social Science, Humanities, and/or Computer Information Technology; no two classes from the same area). 24.0 hours

Students are required to provide or purchase a basic tool set during the first quarter. (see other side)

Students are required to wear program uniforms while in classroom or laboratory settings.



Graduate Earnings

Recent graduates report an average starting wage of \$22.80 per hour.

For more information contact:

William E. Vocasek, Program Chair
402-761-8241, 800-933-7223 ext. 8241
bvocasek@southeast.edu

or the College Admissions Office
Milford 402-761-8243, 800-933-7223 ext. 8243

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Estimated Expenses

To determine overall costs, students should plan a budget that includes room, meals, clothing, laundry, medical care, recreation and entertainment, transportation, insurance, etc.

Nebraska Resident tuition rate is \$61.50 per credit hour. Out-of-state tuition rate is \$75.50 per credit hour. Student fee is \$1.50 per credit hour. Graduation fee is \$25.

Housing is available at Beatrice and Milford campuses only. Quarterly tuition, books and fees are dependent upon classes taken.

FIRST QUARTER

Tuition And Fees	\$1,575
Books	330
*Tools	7,725
Supplies	300
Total	\$9,930

SECOND QUARTER EXPENSES

Tuition And Fees	\$1,575
Books	365
*Tools	725
Total	\$2,665

THIRD QUARTER EXPENSES

Tuition And Fees	\$756
COOP Quarter	
Total	\$756

FOURTH QUARTER EXPENSES

Tuition And Fees	\$1,449
Books	175
Total	\$1,624

FIFTH QUARTER EXPENSES

Tuition And Fees	\$1,544
Books	400
Tools (May Be Purchased From Optional List)	
Total	\$1,944

SIXTH QUARTER EXPENSES

Tuition And Fees	\$756
COOP Quarter	
Total	\$756

SEVENTH QUARTER EXPENSES

Tuition And Fees	\$1,638
Books	215
Total	\$1,853
Total Estimate For Program	\$19,528

Basic Tools for Deere Construction & Forestry Equipment Tech Program

TOOLS REQUIRED FOR 1ST & 2ND QUARTERS

(SPECIAL NOTE: The 2nd day of the quarter the student is required to have in their possession the following named tools:

**1 - Fluke Model 87 or 88 Multimeter (NO SUBSTITUTES)

**1 - 0 to 1" Micrometer (Non-digital, Electronic or Mechanical) (Check w/instructor before purchasing for requirements)

**** Do NOT PURCHASE from a vendor that must order & deliver at a later date!**

- *1 - Scientific Calculator
- *1 - Safety Glasses (must meet Z87 specs.)
- 1 - Roll-A-Way Tool Box (Top Chest Optional) (Maximum 55" long — 55" includes hang/add on boxes)
- 1 - Combination Pliers
- 1 - 6" Needle Nose Pliers
- 1 - Water Pump or Channel Lock Pliers
- 1 - Internal/External Snap Ring Pliers Kit - reversible (not interchangeable) tips
- 1 - 4" Vise Grip Pliers w/cutter
- 1 - 6" Vise Grip Needle Nose Pliers
- 1 - 10" Vise Grip Pliers w/cutter
- 1 - Allen Wrench Set, English
- 1 - "O" Ring Tool Kit
- 1 - Penlight
- 1 - 6" Steel Rule
- 1 - Ignition Wrench Set (7/32" - 3/8" range)
- 1 - Hacksaw w/blades
- 1 - 16" Rolling Head Bar
- 1 - 1 lb. Ball Peen Hammer
- 1 - Compothane "Dead Blow" Hammer, 3 lb. minimum
- 1 - .0015" - .030" Feeler Gauge Set - Flat
- 1 - Gasket Scraper (minimum 1" wide, short length)
- 1 - 10" Half Round File w/handle
- 1 - 10" Single Cut Mill File w/handle
- 1 - 8" x 5/16" Round File w/handle
- 1 - File Card
- 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 - Dial Indicator w/Magnetic Base (1" Travel Indicator)
- 1 - Telescoping Magnet
- 1 - Air Conditioning Duct Thermometer
- 1 - Brass Drift (3/4" Diameter)
- 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 - 3/4" Cold Chisel
- 1 - Air Chuck (for inflating tires)
- 1 - Electrical Pliers, Wire Crimper/Cutter/Stripper
- *1 - Welding Gloves
- *1 - Oxyacetylene Welding Headgear w/ Face Shield #5 Lens, also clear face shield for general shop eye protection while grinding, buffing, etc.
- *1 - Arc Welding Helmet w/#10 Lens and 2 clear plastic lenses
- 1 - Combination Wrenches (3/8" to 1 5/16")
- 1 - Metric Combination Wrench Set (8mm to 24mm)
- *1 - Chipping Hammer w/Steel Brush
- ** 1 - Electrical Test Lead Kit
- ** 1 - Steel/Fastener Kit - Hand Tools Project
- 1 - 1/4" Drive Socket Set (1/4" to 1/2") including Ratchet, Short Extension, Drive Handle, and Universal Joint (6 point sockets)
- 1 - 3/8" Drive Socket Set (3/8" to 7/8") including Ratchet, Long Handle, 4" & 6" Extensions, Long Flex Handle, Speed Handle and Universal Joint (12 point sockets)
- 1 - 1/2" Drive Socket Set (3/8" to 1 5/16") including Long Handle Ratchet, 3" & 6" Extensions Approximately 24" Flex Handle, and Universal Joint (12 point sockets)
- 1 - 3/8" Drive Deep Socket Set (English) (6 point)
- 1 - 1/2" Drive Deep Socket Set (English) (6 point)
- 1 - 1/4" Drive Metric Socket Set 6 point (4mm to 15mm)
- 1 - 3/8" Drive Metric Socket Set (8mm to 19mm) 12 point
- 1 - 1/2" Drive Metric Socket Set (10mm to 32mm) 12 point
- 1 - 3/8" to 1/4" Impact Adaptor
- 1 - 1/4" to 3/8" Impact Adaptor
- 1 - 3/8" to 1/2" Impact Adaptor
- 1 - 1/2" to 3/8" Impact Adaptor
- 1 - 1/2" to 3/4" Impact Adaptor
- 1 - 1/2" Drive Torque Wrench (250 ft. lb.)
- 1 - Twist Drill Index 1/16" to 1/2" by 64ths
- 1 - 3/8" Drive Torque Wrench (100 ft. lb.)
- 1 - Flat Nose Snap Ring Pliers (14" long/ 1 1/2" opening/wide jaw)
- 1 - Flat Nose Snap Ring Pliers (14" long/ 1 1/2" opening/narrow jaw)
- 1 - Pistol Grip Air Gun w/rubber tip
- 1 - Air Conditioning Service Wrench (1/4" to 3/16" square drive on one end with 1/2" to 9/16" Hex on opposite end)
- 1 - 6" Dial Caliper
- 1 - Ear Protection
- 1 - Thread Pitch Gage (English)
- 1 - Thread Pitch Gage (Metric)
- 1 - Angle Feeler Gauge Set
- 1 - Stop Watch
- 1 - Crow's Feet Set, Straight to 1 1/2"
- 1 - Torx Bit Socket Set (Male)
- 1 - Allen Head Socket Set (English) (3/8" drive)
- 1 - Allen Head Socket Set (Metric) (3/8" drive)
- 1 - Filter Wrench (Big Strap)
- 1 - Long Reach Needle Nose Pliers
- 1 - Inch Pound Torque Wrench Dial or Beam Type

ADDITIONAL TOOLS FOR 3RD & 4TH QUARTERS:

- 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 - 1/2" Drive Flare Nut Socket (6 Point)
- 1 - 1/2" Drive 5/8" Flare Nut Socket (6 Point)
- 1 - Metric Allen Wrench Set
- 1 - 20" Rolling Head Bar
- 1 - 16" Pinch Bar
- 1 - 30" Pry Bar
- 1 - Tire Pressure Gauge (100 psi capacity)
- 1 - Machine Hammer (3 lb. or 4 lb.)
- 1 - 3/8" Drive Impact Flex Impact Socket Set (7/16" to 3/4" 6 Point)
- 1 - 3/8" Drive Impact Flex Impact Socket Set (10mm to 19mm 6 Point)
- 1 - Metric Combination Wrenches (25mm to 32mm)
- 1 - 1/2" Drive Allen Sockets (1/2, 9/16, & 5/8)
- 1 - 1/2" Drive Allen Sockets (12mm, 14mm, & 17mm)
- 1 - Dial or Digital Tire Pressure Gauge w/ max 50psi
- 1 - 24" Crescent Wrench
- 1 - Rechargeable Work Light
- 1 - Channel Lock Pliers (LARGE)

OPTIONAL TOOLS FOR 5TH, 6TH, & 7TH QUARTERS:

- 1 - 3/8" Air Ratchet
- 1 - 3/8" Air or Electric Impact Wrench
- 1 - 3/8" Drive Impact Deep Socket Set (3/8" to 7/8")
- 1 - 1/2" Air Impact Wrench
- 1 - 1/2" Drive Impact Deep Socket Set (1 1/2" - 1 1/2")
- 1 - 1/2" Drive Metric Impact Socket Set (19mm to 32mm)
- 1 - English Angle Head Open End Wrench Set (3/8" to 2")
- 1 - 36" Pry Bar
- 1 - Short combination Wrench Set, English (3/8" - 3/4")
- 1 - Combination Wrenches (1 3/8" to 2")
- 1 - Long Reach Bearing Race Punch
- 1 - Gear Wrenches
- 1 - Die Grinder
- 1 - Air Hammer

* May be purchased at the campus bookstore.

** May be purchased at the campus Parts Store.

* A tool set is required for successful completion of the program and required as an entry level technician. Tools may be purchased from a vendor of the individual's choosing. Vendors are available and offer students a discount. The discounts are determined by each vendor.

The cost of tools will vary depending on which vendor is selected. As each quarter has different requirements for tools, some quarters will exceed the estimate listed above and some quarters will be below the listed estimate.

NOTE: Tools may be purchased from vendors on campus. This includes first and second quarter.

