

## JOHN DEERE TECH PROGRAM

### REQUIRED BASIC TOOL LIST

#### Required Tools 1st semester

##### Miscellaneous

- ☐ Tool bag 18" limit
- ☐ Pocket screwdriver
- ☐ Magnetic pick-up tool (telescoping)
- ☐ Telescoping Inspection mirror
- ☐ Pen/mini flashlight
- ☐ Air conditioning duct thermometer
- ☐ Air chuck (for tire inflation)
- ☐ Tire gauge 0-100psi
- ☐ Pistol grip rubber tipped blow gun
- ☐ 4-piece pick set
- ☐ Battery terminal cleaner

- ☐ Battery terminal spreader pliers
- ☐ Small wire brush
- ☐ \*Safety glasses Z87 rated (3 pairs) (clear lenses only!)
- ☐ \*Ear protection (optional)

##### Measuring tools

- ☐ 6" steel rule combination mm and 64th graduations
- ☐ Feeler gauge set .0015"-.030" (min)
- ☐ Angle Feeler gauge set .0015"-.030"(min)
- ☐ Thread pitch gauge set SAE

- ☐ Thread pitch gauge set Metric
- ☐ 6" dial caliper stainless steel (non-electric)
- ☐ \*Starrett Micrometer 0-1" (non-electric)
- ☐ \*\*Plastic bolt gauge (SCC parts store)
- ☐ Drill bit set 1/16"-1/2" x 64ths

##### Electrical testing equipment

- ☐ \*Fluke 87V multimeter (no substitutions)
- ☐ \*\*Electrical test lead kit (SCC parts store)
- ☐ Additional Test lead kit (MTTL300 Snap-On or equivalent)

#### Required Tools 2nd semester

##### Tool Box

- ☐ Roll cab tool box (MAX 56" width including hang/add on boxes etc)

##### Wrenches

- ☐ Combination wrenches SAE 1/4"-1 1/4" 12pt
- ☐ Combination wrenches Metric 8mm-32mm 12pt
- ☐ Flare nut wrenches SAE 1/4",5/16",3/8",7/16",1 2",9/16",5/8",3/4" 6pt
- ☐ Metric allen wrench set
- ☐ SAE allen wrench set
- ☐ John Deere Starter wrench JDE80 (acquired from John Deere dealer)
- ☐ Ignition wrench set 7/32"-3/8" range

##### Sockets – 3/8" Drive

- ☐ SAE socket set 3/8"-7/8" shallow (6pt or 12pt)
- ☐ SAE socket set 3/8"-7/8" deep 6pt or 12pt)
- ☐ Metric socket set 8mm-19mm shallow (6pt or 12pt)
- ☐ Metric socket set 8mm-19mm deep (6pt or 12pt)
- ☐ Ratchet
- ☐ Long flex handle ratchet
- ☐ 4" and 6" extensions
- ☐ universal joint
- ☐ 3/8" to 1/4" adapter
- ☐ 3/8" to 1/2" adapter
- ☐ 3/8 drive Torque wrench (Click type or digital) 100 ftlb

##### Sockets – 1/4" Drive

- ☐ SAE socket set 1/4"-9/16" shallow 6pt
- ☐ SAE socket set 1/4"-9/16" deep 6pt
- ☐ Metric socket set 5-14mm shallow 6pt
- ☐ Metric socket set 5-14mm deep 6pt
- ☐ Ratchet
- ☐ 2" and 4" or 6" extension
- ☐ universal joint
- ☐ 1/4" to 3/8" adapter

##### Sockets – 1/2" Drive

- ☐ SAE socket set 3/8"-1 1/4" shallow (6pt)
- ☐ SAE socket set 3/8"-1 1/4" deep (12pt)
- ☐ Metric socket set 10mm-32mm shallow (6pt)
- ☐ Metric socket set 10mm-32mm deep (12 pt)
- ☐ Ratchet
- ☐ 3" and 6" extensions
- ☐ 24" breaker bar
- ☐ 1/2"-3/8" adapter
- ☐ universal joint
- ☐ 1/2" drive 3/4" flare nut socket 6pt
- ☐ 1/2" Torque wrench (Click type or digital) 250 ftlb

##### Pliers

- ☐ 6" needle nose pliers
- ☐ 7" diagonal pliers
- ☐ 6" combination pliers
- ☐ 12" water pump pliers (aka channel lock pliers)
- ☐ Flat nose retaining ring pliers 9" straight tip
- ☐ Flat nose retaining ring pliers 9" angled tip
- ☐ Internal/External snap ring plier set reversible (non interchangeable tips)
- ☐ 4" vice grip pliers
- ☐ 6" vice grip pliers needle nose
- ☐ 10" vice grip pliers
- ☐ electrical pliers cutter/stripper/crimper

##### Screwdrivers

- ☐ No. 1 Phillips screwdriver
- ☐ No. 2 Phillips screwdriver
- ☐ No. 3 Phillips screwdriver
- ☐ No. 4 Phillips screwdriver
- ☐ Flat tip screwdriver 1 1/2" long
- ☐ Flat tip screwdriver 2 7/8" long
- ☐ Flat tip screwdriver 4" long
- ☐ Flat tip screwdriver 6" long
- ☐ Flat tip screwdriver 8" long
- ☐ (Note: most 8 piece screwdriver sets will have all but the No. 4 Phillips)

This list includes the basic tools a student will be required to have to successfully complete the program. The student should discuss with their program advisor the timeline for purchasing specific tools and suggested optional tools. The College does not recommend, nor endorse, any specific brand of tools. The student should give careful consideration when selecting tools they will use in their career. (10/1/2025)

### Pry Bars

- ☐ Pry bat curved 12"-16"
- ☐ Pry bar curved 16"-24"
- ☐ Pry bar curved 24"-30"
- ☐ Rolling head pry bar 12"
- ☐ Rolling head pry bar 16"
- ☐ Rolling head pry bar 21"

### Miscellaneous Tools

- ☐ Gasket scraper 1" wide blade short length

### Welding

- ☐ \*Arc welding helmet with #10 lens with 2 clear plastic lenses (or electronic)
- ☐ \*Welding gloves

### Hammers, Punches, Chisels

- ☐ 16 oz. ball pien hammer
- ☐ 32oz Dead blow hammer (composite)
- ☐ Brass drift (3/4" diameter)
- ☐ center punch
- ☐ pin punches 1/8", 5/32", 3/16", 1/4"
- ☐ Starter punches 1/8" and 1/4"
- ☐ Cold Chisels 3/8", 1/2", 3/4"
- ☐ Bearing race punch 18" (Mac tools PB37L or equivalent)
- ☐ 3-4 lb short handle sledge hammer (approx. 12")

- ☐ Seal puller (Blue point YA105 or equivalent)

- ☐ \*Oxy/acetylene welding face shield w/head gear #5 shade lens
- ☐ \*Clear face shield and eye protection for grinding metal etc.

### Files

- ☐ 10" Half Round File w/handle
- ☐ 10" Single Cut Mill File w/handle
- ☐ 8" x 5/16" Round File w/handle
- ☐ File Card (for cleaning files)

- ☐ Hacksaw w/extra blades 12"

- ☐ \*Chipping hammer
- ☐ \*Steel wire brush

\*May be purchased at the Campus Book Store. \*\*Purchase from the Campus Parts Store.

### Optional tools

- ☐ 3/8" drive impact wrench (air or cordless)
- ☐ 1/2" drive impact wrench (air or cordless)
- ☐ 3/8" drive impact swivel
- ☐ 1/2" drive impact swivel
- ☐ 3/8" drive impact extensions
- ☐ 1/2" drive impact extensions
- ☐ 1/2"-3/4" impact adapter
- ☐ 3/8" drive impact sockets shallow and deep SAE (3/8"-3/4")
- ☐ 3/8" drive impact sockets shallow and deep Metric (10mm-19mm)
- ☐ 1/2" drive impact sockets shallow and deep SAE (1/2"-1 1/2")

- ☐ 1/2" drive impact sockets shallow and deep Metric (13mm-32mm)
- ☐ 3/8" drive swivel impact sockets SAE (3/8"-3/4")
- ☐ 3/8" drive swivel impact sockets Metric (10mm-19mm)
- ☐ 1/2" drive swivel impact sockets SAE
- ☐ 1/2" drive swivel impact sockets Metric
- ☐ die grinder straight
- ☐ die grinder 90 degree
- ☐ Air hammer with bits
- ☐ Allen socket set SAE and Metric
- ☐ Torx socket set (T8-T55)

- ☐ Angle head wrench set SAE (1/2"-1 1/4")
- ☐ Angle head wrench set Metric (10mm-19mm)
- ☐ Roll pin punch set 12 piece (snap on PPR712K or equivalent)
- ☐ R134 A/C manifold gauge set
- ☐ Infrared thermometer
- ☐ Tap and die set SAE and Metric
- ☐ 1/4" drive inch pound torque wrench