

## Electrical Construction Tool List

Todd Maynard, Instructor



The Electrical Construction and Maintenance Program at NMCC offers training in a variety of basic electricity, basic electronics, motor control, and advanced electrical wiring courses. As a result, certain tools will be used during the senior year but not required for the freshman year. The following list should help incoming students identify which tools will be required for the first year. Many of the tools on the senior year list will not be required until that year. Only those tools identified for the freshman year will need to be purchased prior to the fall semester start-up or during the first week of classes.

### Notebook Computer Minimum System Requirements (FRESHMAN AND SENIOR)

<b>Pentium 4 Processor or greater</b>	<b>512 MB RAM or greater</b>
<b>40 GB Hard Disk Drive or greater</b>	<b>DVD-ROM Drive</b>
<b>(10 GB unused space)</b>	<b>Wireless 54g Network Adapter</b>
<b>Working Battery (1 hr runtime minimum)</b>	<b>Available USB Ports</b>
<b>w/AC Power Supply</b>	

### Freshman Tools

Small electronics Tool Kit, available at the NMCC Bookstore  
Digital Multimeter, available at the NMCC Bookstore

### Basic Wiring Tools (ELE112)

- Insulated handle screwdrivers, 3/16 and ¼ inch straight blade
- Insulated handle #2 phillips driver
- Linesman pliers, 9 inch insulated grip
- Wirestrippers, T-Strippers recommended
- Electrician folding knife
- Long-nose pliers, insulated grip
- Tapemeasure
- Electricians' Hammer
- Sharpie (permanent fine point marker)
- Tool carrier of your choice
- 1 and 2 pole breaker lockouts, with padlock and tags
- Safety eyewear, ANSI approved
- Safety footwear, ANSI approved hard toe

### Motors & Controls (ELS125) in addition to all tools listed for (ELE112)

- Unlined leather gloves, electrician
- Diagonal cutting pliers, 8 inch
- Pump pliers, 9" or 10"
- Nut driver set 3/16 thru ½ inch
- Adjustable wrench, 6 inch handle or larger
- Crimping tool, insulated and uninsulated terminals

Senior Tool List on page 2

**The following is the tool list for Seniors (ELE212, ELE223)**

Screwdrivers, insulated handles (insulated shank preferred)  
3/16, 1/4, 5/16, 3/8, Straight blade  
#2 Phillips  
#1 and #2 Robertson tip (square tip)  
Allen wrenches, SAE, torx and metric  
Adjustable wrench, 6 inch or larger handle  
Screw starter  
Electricians' tri-tap, 6/32, 8/32, 10/32 threads  
Hacksaw and blades for PVC (18-24 teeth) and steel (28-32 teeth)  
Magnetic protractor, Sears 9-3984, Klein 1895, or equal  
1/2 inch Knockout Punch for 1/2 inch conduit  
1/2 EMT bender (we can make a handle in the shop)  
Cordless drill (or screwdriver) and bit set which includes 1/4 and 5/16 hex bits  
7/8 inch ship auger bit, Naileater preferred  
1/2 inch step drill bit (unbit), 1/8 to 3/4 is OK  
Drill bit set, jobber length  
Torpedo level  
Jab saw  
Digital Multimeter CAT 3 or greater and lead set  
Tool carrier of your choice

**NOTE:** Check with your local tool supplier about the IDEAL student package as a starter kit #35-790, 35-800 or 35-805. You can add the other tools on the list to these kits.

01/2015