

TO: All Electrical Occupations Students  
FROM: William Chernicky, Instructor  
DATE: July 23, 2020  
RE: Items needed to begin the 2020-2021 School Year

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As the Electrical Occupations Instructor at the Crawford County Career & Technical Center (CCCTC), I congratulate you on your decision to attend my class and hope you will make the most of the education you can attain here. The electrical field has a wide variety of electrical related occupations, which will require the need for a few personal items:

1. **Hard soled work shoes:** Open toed shoes and tennis shoes are not permitted to be worn during class (steel toes are not required)
2. **Work Clothes:** Some type of work shirt or overalls to prevent staining of school clothes. (Shorts are not permitted)
3. **3" 3-Ring Binder:** Used for Jr./Sr. Portfolio
4. **Safety glasses:** The school will provide one pair to first year students with non-prescription safety glasses at no charge. However if at any time during their first or second year in the program the glasses are **lost or damaged due to misuse** the student must pay for replacement glasses. Prescription safety glasses may be purchased through your eye care provider.
5. **Colored pencils & 1/4 Graph Paper:** (for drawing wiring diagrams)
6. **Tools:** Students choosing the Electrical Occupations program will be required to have his/her own set of **electrical hand tools** at the beginning of their first year. The **volt-ohm meter** will be needed around Christmas time of their first year (makes a wonderful Christmas gift) and the **1/2" Thin Wall (EMT) bender** will be needed during the student's second year.

When purchasing hand tools, keep in mind it is most cost-efficient to purchase a whole set of tools rather than purchasing each tool separately. I find that the Klein Tools (92914) Journeyman ProPack "14 piece Apprentice Tool Set for Trade Professionals" is a perfect starting point for students as this kit includes:

<i>Lineman Pliers</i>	(J2000-9NETP) High-Leverage side-cutting pliers- Fish tape pulling
<i>Side-Cutting Pliers</i>	(J2000-48) High-Leverage Diagonal-Cutting pliers-Angled Head
<i>Slip-Joint Pliers</i>	(J502-10) Pump Pliers
<i>Needle-nose Pliers</i>	(J203-8) Heavy-Duty Long-Nose Pliers- side-cutting
<i>Wire-strippers</i>	(11055) Klein-Kurve Wire stripper/cutter- solid & stranded wire
<i>Tool Pouch</i>	(5720) 12-pocket tool pouch
<i>Tool Belt</i>	(5705) Adjustable Web Work Belt
<i>1/4" Nut-Driver</i>	(630-1/4) Cushion-Grip Nut Drivers 3" shaft
<i>5/16" Nut-Driver</i>	(630-5/16) Cushion-Grip Nut Drivers 3" shaft
<i>No.2 Square-Driver</i>	(662) No. 2 Square-recess Tip cushion-grip screwdriver 4" round shank
<i>1/4" Flat-Blade</i>	(605-4) 1/4" Cabinet-Tip cushion-grip screwdriver 4" round shank
<i>3/16" Flat-Blade</i>	(601-6) 3/16" Cabinet-Tip cushion-grip screwdriver 6" round shank
<i>No.1 Phillips</i>	(603-3) No. 1 Phillips-Tip cushion-grip screwdriver 3" round shank
<i>No. 2 Phillips</i>	(603-4) No. 2 Phillips-Tip cushion-grip screwdriver 4" round shank

The kit costs around \$200, which you might find expensive, however keep in mind this is more cost-efficient than buying each tool individually. For example the High-Leverage side cutting pliers cost approximately \$52 for just the one tool.

Also if you do not like Klein Tools, or just find them too expensive, other options are out there. Notice next to each tool in italics are “trade names” for each tool so you can find equivalents to each tool listed above.

Additionally students will also need to acquire a knife, small level and a tape measure.

**Bender and Meter:** I suggest a Fluke T5-600 electrical meter, and Klein Tools ½” Thin wall conduit bender (EMT) or contact me and we can discuss the purchase of an adequate meter to meet your student’s needs.

NOTE: Contractors are reluctant in hiring any student who has not taken the initiative to acquire his/her own set of electrical hand tools. By having their own tools the student learns responsibility, proper care of tools and a sense of accomplishment. Throughout the school year, they can add to their set of tools, as new tools are introduced and discussed in class. If you feel that any of these expenses listed above may be a deterrent to your son/daughter’s enrollment at the CCCTC, please notify myself or the Student Services Department at the CCCTC to discuss financial alternatives. If necessary, electrical hand tools can be provided at no cost to the student, keeping in mind they are the property of the school and are not to leave school property. Also, The Hite Company and Weber Electric have offered a 10% discount program for electrical hand tools for any student enrolled in the Electrical Occupations program at the CCCTC. Channellock Inc., has also set up a program for students to purchase tools at a reduced cost.

The School’s Weapons Policy prohibits students from **transporting or possessing** tools that could be classified as a weapon according to school law such as: utility knives or other cutting instruments, etc. These tools must be delivered to the school by parent/guardian or will be provided by the Crawford County CTC and will then remain at the school. Tools should be dropped off at the CCCTC after September 3, 2020.