

**Mechatronics
MO SkillsUSA 2012
Tool List**

Supplied by ALL contestants:

- ___ Wire cutters
- ___ Wire strippers
- ___ Small flat blade screw driver
- ___ Small Phillips screw driver
- ___ Multimeter
- ___ One page, typewritten resume

Additional supplies needed for Post-Secondary students (1 per team):

1. Computer system
2. PLC with programming software
3. Power supply
4. Programming cables

Note: The Post-Secondary project will require the team to program a PLC for one of the EasyVeep modules and wire their inputs/outputs on their terminals. The final step will be to run the program to verify the success of their project. Teams may test/problem solve during the contest as long as time allows.

Project Time Limit: 2 hours

Before the contest:

1. Teams will need to download the EasyVeep software from the following location. www.easyveep.com. The version 2.18 software should not be loaded on the computer with the PLC program and software.
2. Teams should become familiar with the EasyVeep **Modules** tab, **Connection** tab, and **Display** tab.
3. The **Connection** tab will list the wiring codes for wiring the inputs/outputs for the various modules and used as a practice component for the contest.
4. Within the **Modules** tab, pay close attention to the **Description** of the activity. This will give you information about different sensors and components used in the Module.

If you have any questions, please contact:

Rod Murphy –DEPCO

800-767-1062 x 119

417-850-5926 cell

rmurphy@depcollc.com

Clothing requirement:

- Appropriate job-related clothing or
- Blue jeans (no rips or tears) and SkillsUSA conference t-shirt
- Black or brown leather work shoes or boots
- Safety glasses with side shields or goggles

Note: No shorts, open-toed shoes or mid-ribs exposed.

If the school uniform is worn, the nametag or logo must be removed or covered.

Remember to prepare for the Professional Development Program (PDP) Knowledge test!

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Pre-Contest Meeting and Contest:

Date: Friday, March 30

Time: 8:00 a.m. – Completion

Pre-Contest Meeting Location: Engineering Tech Wing - Room 103 - LSTC (2)

Contest Location: Engineering Tech Wing - Shop - LSTC (2)

Remember to prepare for the Professional Development Program (PDP) Knowledge test!