

**2012 MICHIGAN SKILLS USA CHAMPIONSHIPS
TASK AND MATERIALS LIST**

SKILL OR LEADERSHIP AREA: _____ Electrical Construction Wiring _____

TASKS TO BE PERFORMED:

- Answer questions to written test regarding SkillsUSA knowledge.
- Install the electrical materials as per the supplied drawings

SCOPE OF PROJECT:

- Take written test – 30 minutes, go over answers.
- Install a doorbell system as per the drawing.
- Mount electrical equipment as shown on the drawing.
- Install Non-Metallic Sheath Cable and wire circuits containing 3 way switching for the luminaire.
- Install Non-Metallic Sheath Cable and wire circuits for the receptacles and the single pole switch as per the notes on the drawing.
- Install the MC cable as shown on the drawing.
- Bend and mount conduit as per the drawing.
- Install old work boxes as per the drawing.

STUDENTS MUST SUPPLY:

- Resume – 1 page
- Calculator
- Hammer
- Screwdrivers (Regular and Phillips)
- Needle nose pliers
- Wire strippers
- Non-Metallic Sheath Cable strippers
- Crimp tool for splice caps
- Diagonal wire cutters
- Electrical side cutting pliers
- Tool pouch and belt
- 6' rule or tape measure
- **Approved Safety hard hat**
- **Safety glasses with side shields or goggles**

- ½” EMT conduit hand bender (thin wall)
- Torpedo level
- MC cutter
- Hack saw frame & blade
- #2 pencil
- Voltage tester
- Continuity tester
- Cordless drill/screwdriver
- Conduit reamer
- ½” spade/paddle
- National Electrical Codebook 2008 (**no hand books**)
- Knife
- Key hole saw

NOTE:

- Conduit box kickers are NOT allowed.
- Judges reserve the right to deny use of any tools not on this list.
- Do not borrow tools from others.
- You will be scored on **clean and safe your work area is.**

DRESS CODE:

- Leather work boots or shoes (no athletic shoes)
- Appropriate work attire.

Revised 1/4/12

SCORECARD Residential Wiring

		Contestant Number							
Items Evaluated	Possible Points								
Safety	80								
National Electrical Code	70								
Height Requirements	100								
Device Locations	80								
Wiring Methods	80								
Grounding, Splices, & Termination	80								
Overall Neatness	40								
Function/Operation Test	80								
Box Locations	80								
Contestant Interview	90								
EMT-Pipe Bending	70								
Written Test	150								
Résumé Penalty	0 or -50 only								
Clothing Penalty	0 to -50								
Total Possible Points	1000								

Date: _____

Judges' Signatures: _____
