

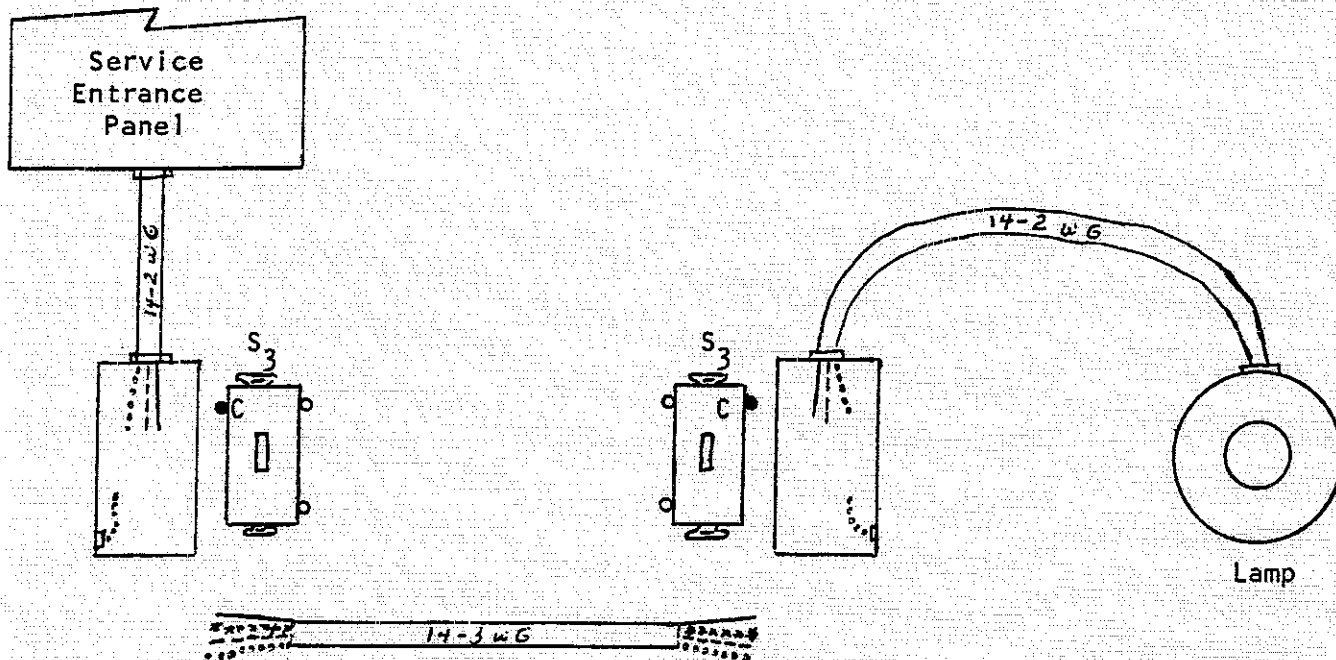
State of Iowa
DEPARTMENT OF EDUCATION
Career Education Division
Grimes State Office Building
Des Moines, IA 50319

CONTESTANT NUMBER _____
CONTESTANT NAME _____
CONTESTANT SCHOOL _____

SKILL

Electrical Circuits-Wiring Three-Way Switches

- A. You will have 15 minutes to complete this exercise.
- B. All materials needed to complete the skill are at the work station.
- C. Complete the wiring exercise on the diagram below connecting the three-way switches by using _____ lines for the black wire, ***** for the red wire, ----- for the white wire, and for the bare wire (ground).



- D. Complete the actual wiring of the switches using materials at your work station. Select the correct switches for this circuit. All wire is correctly installed in the boxes. Do Not attach the switches to boxes. Do Not do any wiring of the lamp or service entrance panel.
- E. When completed, leave your work station in order and request the judge to evaluate your wiring exercise.

EVALUATION SCORE SHEET

ITEM	POINTS	
	POSSIBLE	EARNED
1. Wiring diagram	6	_____
2. Wiring the switches		
a) Selected correct switches	2	_____
b) Proper connection of switches	6	_____
c) Circuit correctly grounded	3	_____
d) Conductors secured to terminals	2	_____
e) Conductors around screws correctly	2	_____
f) Wire nuts properly secured	2	_____
3. Safety, use of tools and work habits	2	_____
TOTAL	25	<input style="width: 50px; height: 30px;" type="text"/>