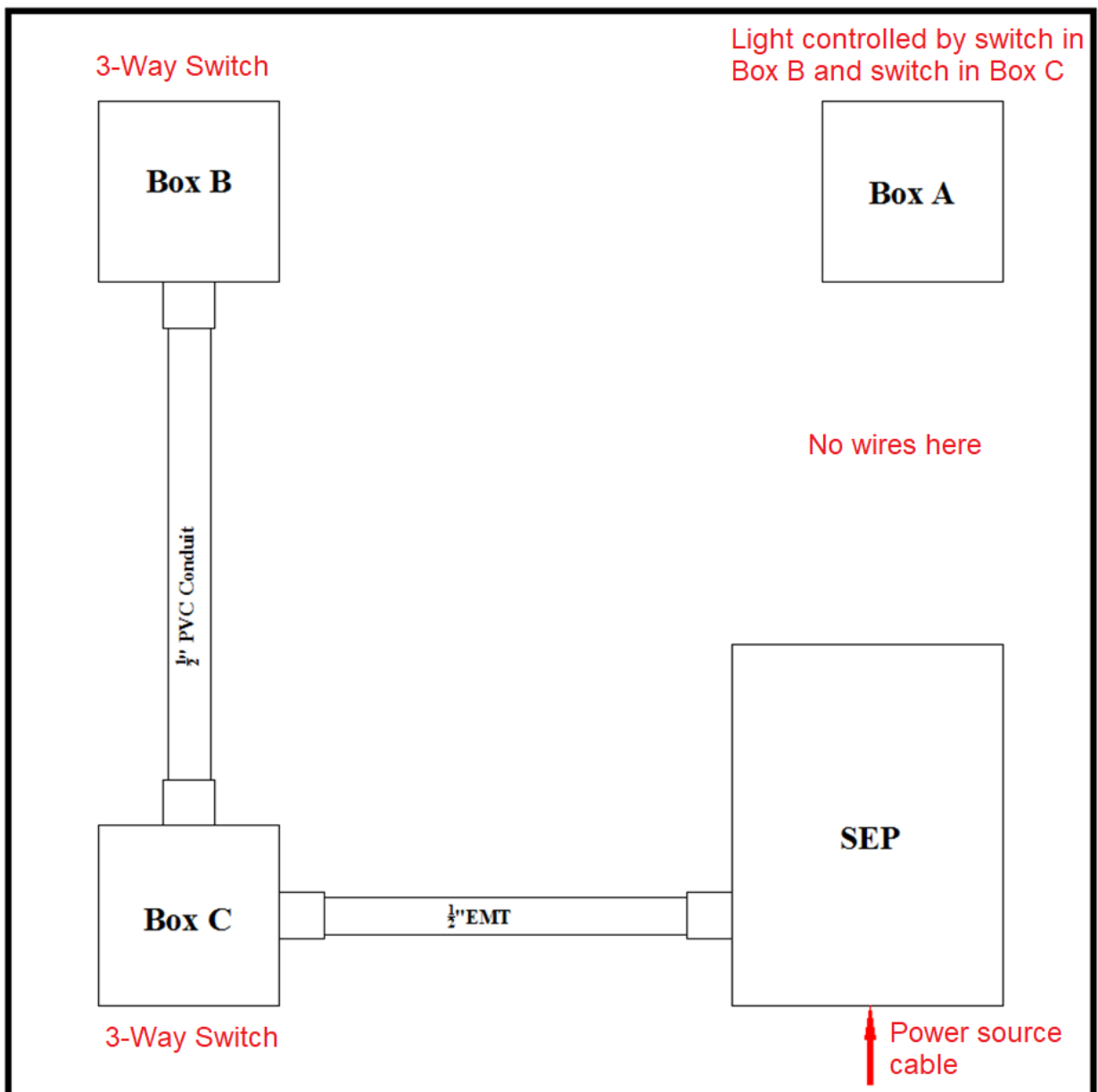


FFA State Finals: Ag. Mechanics Electrical Skills, 2018

You are required to wire a single circuit, all fed by **ONE** single pole circuit breaker (assumed to be **15 amp**) in the service entrance/sub panel.

Specifications (see graphic below):

1. Wiring is to be done according to the NEC.
2. Include a short power source cable (14-2 w/GND) to the SEP.
3. Local codes require a grounding wiring to be included in all conduit circuits.
4. Box "A" is to include a light, controlled by the **3-Way** switch in Box "B" **AND** the **3-Way** switch in Box "C".
5. No conductor/wires are to run between the SEP and Box A.



Contestant No.
Name

**FFA Ag. Mechanics State Finals 2018
Electrical Wiring
Skills**

Score

Score Sheet

	Points Possible	Points Earned
General		
Safety and work habits	5	<input style="width: 100%; height: 20px;" type="text"/>
Service Entrance Panel		
Correct source cable	5	<input style="width: 100%; height: 20px;" type="text"/>
6" free conductor	5	<input style="width: 100%; height: 20px;" type="text"/>
Correct breaker connections	5	<input style="width: 100%; height: 20px;" type="text"/>
Proper neutral & grounding connections	5	<input style="width: 100%; height: 20px;" type="text"/>
No excess copper/pinched insulator	5	<input style="width: 100%; height: 20px;" type="text"/>
Box A		
6" free conductor	5	<input style="width: 100%; height: 20px;" type="text"/>
Correct light fixture connections	5	<input style="width: 100%; height: 20px;" type="text"/>
Proper neutral & grounding connections	5	<input style="width: 100%; height: 20px;" type="text"/>
Correct input conductor? (size/type)	5	<input style="width: 100%; height: 20px;" type="text"/>
Box B		
6" free conductor	5	<input style="width: 100%; height: 20px;" type="text"/>
Correct switch connections	5	<input style="width: 100%; height: 20px;" type="text"/>
Proper neutral & grounding connections	5	<input style="width: 100%; height: 20px;" type="text"/>
Correct input conductor? (size/type)	5	<input style="width: 100%; height: 20px;" type="text"/>
Box C		
6" free conductor	5	<input style="width: 100%; height: 20px;" type="text"/>
Correct switch connections	5	<input style="width: 100%; height: 20px;" type="text"/>
Proper neutral & grounding connections	5	<input style="width: 100%; height: 20px;" type="text"/>
Correct input conductor? (size/type)	5	<input style="width: 100%; height: 20px;" type="text"/>
Overall		
Snug wire nuts	5	<input style="width: 100%; height: 20px;" type="text"/>
Workmanship, wire color selection, loops, etc	5	<input style="width: 100%; height: 20px;" type="text"/>
Totals	100	<input style="width: 100%; height: 20px; border: 2px solid black;" type="text"/>