



## Pyramid Wire Joints Assessment

### Steps to Take

This project has several steps which each are marked individually prior to the next step. Going on to the next step without getting the prior step marked **will result in lost marks**, as it will be difficult to assess if you have gone too far ahead.

Use the following table to follow the steps and key requirements to record your marks, peer marks and your updated fixes prior to teacher marking your work. This is intended to maximize your mark, skills, and learning of these wire joints.

#	Task	Mark	Self	Peer	Update/fix Listed	Teacher
1	Wire Stripping: 13 ends with wire stripper and 13 with knife @ 7-8" long, 1" off ends -1/2 minor nicks, -1 major nicks			Name Mark		
2	2 Western Union Joints: one all black, one all red, 3-4 tight turns each side with 5 mm gap from insulation			Name Mark		
3	4 T-Taps: 3 wires with 2 the same colour for cross and one end, cross wire 3" insulation, 5-6 tight turns joined to middle of both leg wires			Name Mark		
4	Soldering: 1 T-tap, 1 Western joint and tin 2 stranded wires- both ends – showing proper prep, and solder amount			Name Mark		
5	Insulation: tape 2 T-taps, heat shrink 1 Western			Name Mark		
6	Pyramid: Temp tape wires to form shape with insulation ends lining up for Rat tails joints			Name Mark		
7	Rat Tails: Make proper rat tails on all ends including stranded on all three bottom joints, lightly twisting properly sized Marrette (twist-on wire connector			Name Mark		

If you are done, you should now know how to effectively make several different types of wire joints safely, are able to work skillfully with electrical related hand tools and wires to create safe solid wire connections and joints. Hand in your mark sheet and congratulations!