

Job Role Name : Solar Panel Installation Technician

Job Role Code : ELE/Q5901

Sl.No	Equipment Name	Specification	Minimum number of Equipment required (For 30 Candidates)	Is this a mandatory Equipment to be available at the Training Center (Yes/No)	Unit Type	Other Specifications
1	Allen Key Set		6	Yes	Nos	
2	Batteries	Solar Tubular Battery 150 AH Capacity	3	Yes	Nos	
3	Cable Ties		100	Yes	Nos	
4	Charge Controller		6	Yes	Nos	
5	Connecting Wires	Solar 4 sq. mm 50 Meter DC Wire for Solar Panels	50	Yes	Nos	
6	Digital Multimeter	Handheld Digital (DMM) Multimeter 3.5 Digit LCD Display Voltage, Current, Resistance Diode Test Function Features	6	Yes	Nos	
7	Drill Machine	Bosch GSB 501 500-Watt Professional Impact Drill	3	Yes	Nos	
8	Lead Solder		6	Yes	Nos	Boxes
9	Load (AC/DC)		6	Yes	Nos	
10	MC4 Connectors		12	Yes	Nos	
11	Mechanical Fixtures Required For Panel Installation	Mounting Structure - Roof top (3 Nos 1 KW), Ground Mounted (3 Nos 1 KW) with fixtures	6	Yes	Nos	Set
12	PCUs	Microtek Solar Power PCU 1450-12V (899-070-1450) or Equivalent	6	Yes	Nos	
13	Plier		6	Yes	Nos	
14	Regulated Power Supply		3	Yes	Nos	
15	Safety Gloves -PVC		10	Yes	Pair	
16	Safety Gloves -Cotton		10	Yes		
17	Safety Helmet		10	Yes	Nos	
18	Safety goggles		10	Yes		
19	Ear plug		10	Yes		
20	Reflective jacket	Compact Store 2" Reflective Safety Zipper Jacket with 2 Pockets - Polyester Fabric	10	Yes		
21	First aid kit		1	Yes		
22	Safety Shoes		10	Yes	Pair	
23	Screw Driver Set	Taparia	6	Yes	Nos	
24	Solar Chart		30	Yes	Nos	Paper Chart
25	Solar Conversion Kits	Experimental Learning Study Kit. DIY Science Project Kit.	3	Yes	Nos	
26	Solar Inverter	1 KW	3	Yes	Nos	
27	Solar Panels	250 Watt (Poly) -4 Nos 250 Watt (Mono) - 4 Nos 450 -500 Watt (Poly) - 2 Nos 450 -500 Watt (Mono) - 2 Nos 100 Watt (Poly) - 4 Nos	4	Yes	Nos	Above 100 Watts
28	Soldering Flux		6	Yes	Nos	Boxes
29	Soldering Iron		6	Yes	Nos	
30	Wire Stripper	Taparia WS06 Wire Stripping Plier	6	Yes	Nos	
31	2 KW Solar PV Rooftop off Grid System (RCC Roof Mounts)	solar panels, charger controller, inverter , Tubular battery bank, cabling and other accessories	1	Yes	Nos	
32	Domestic Electrical Wiring training Tools & Equipment (Casing Capping, Copper Wire, Boards, Switches, Circuit Breakers, various types of electrical points, Wiring Practice Station) – As needed		5 Nos Each (As necessary)	Yes	Nos	
33	Double ended ring spanner	Taparia 18010 Double End Ring Spanner Set, Size: 6 X 7 mm To 30 X 32 mm	2	Yes	Nos	
34	Combination plier	Taparia Combination Plier 1621-8 with Joint Cutter, sized at 210mm	2	Yes	Nos	
35	Side cutting pliers	Taparia 1101-6 Steel (165mm) Side Cutting Plier	2	Yes	Nos	
36	Nose pliers	Taparia 1420-6 Econ-Series Long Nose Plier	2	Yes	Nos	
37	Measuring tape -Steel	10m:25mm Steel Inchi Measuring Tape	1	Yes	Nos	
38	Measuring tape -Leatherette	Leatherette 50m:13mm Fibreglass Measuring Tape	1	Yes	Nos	
39	Standard wire gauge	Wire Gauge Plate Meter Measuring Tool Scale manual machine with Size Chart, Stainless Steel	1	Yes	Nos	
40	Ball pin hammer	Taparia WH 600 B Steel (600g) Ball Pein Hammer with Handle	2	Yes	Nos	
41	Megger	Insulation Tester/Megger/Insulation Resistance Tester 1000V / 200 MOhm(MΩ) Analog	1	Yes	Nos	
42	Earth tester	HTC DET-99 Instruments Digital Earth Tester	1	Yes	Nos	
43	Tester	Taparia Line Tester 81	1	Yes	Nos	
44	Earthing Rod and Earthing materials		1 kit	Yes	kit	