

ELE/Q5901 - Solar Panel Installation Technician – V3

Review Date - 01/06/2025

Theory:

S No.	Question Text	Choice 1	Choice 2	Choice 3	Choice 4	Correct Choice
1	What critical information should be gathered from the supervisor to meet individual work requirements effectively?	Preferred lunch menu of the supervisor	Specific tools and equipment needed	TV show recommendations	Weather forecast for the week	Choice 2
2	When assessing a site for solar panel installation, which factor is important to consider for maximizing sunlight exposure?	Direction of roof slope	Distance to the nearest lake	Color of the building	Brand of solar panels used	Choice 1
3	In which of the following locations should solar panels be installed to capture the maximum sunlight during daylight hours in a residential area?	Roof facing south	Inner courtyard surrounded by tall buildings	Under a large tree	Basement parking	Choice 1
4	If a customer requires a voltage of 440V and power output of 1200W, which type of installation would be the most cost-effective option to meet this requirement?	Mini grid installation	Off-grid installation	Grid-tied installation	Stand-alone installation	Choice 3
5	Which factor should be considered while selecting the mounting stands for solar panels during the arrangement process?	Color of the stands	Price of the stands	Customer's preferences	Design specifications	Choice 4
6	What is a key responsibility of a Solar Panel Installation Technician in relation to understanding the customer requirement on installation?	Conducting site assessments to determine the best installation approach.	Collaborating with customers to design customized solar panel systems.	Ensuring compliance with local regulations and safety standards.	Providing accurate cost estimates for the installation project.	Choice 2
7	When assessing the degree of inclination for PV modules in a specific area, which factor should be considered to ensure maximum sunlight absorption?	Latitude of the location	Annual rainfall levels	Distance from the equator	Local wind speed variations	Choice 1
8	Explain the potential risks involved if a module is not covered with opaque material during installation.	Decreased energy production	No impact on performance	Fire hazard due to current generation	Longer lifespan of the module	Choice 3

9	If a user encounters a software bug while using the system, what should be their immediate course of action?	Restart the system	Ignore the bug and continue using the system	Contact technical support for assistance	Uninstall the software	Choice 3
10	What steps can be taken to ensure the removal of metals and jewellery during installation activities?	Wearing insulated gloves instead of removing metals	Using metals as tools during installations	Regularly checking jewellery conductivity	Following safety guidelines and removing metals/jewellery	Choice 4

Practical and Viva:

S No.	Question Text	Suggestion Solution	Equipment Required	Question Type
1	Perform the following task: Demonstrate the pre-installation process of a solar panel.	<p>The candidate mentioned:</p> <ol style="list-style-type: none"> 1. Understood the type of mounting based on the customer's requirement. 2. Calculated the degree of inclination and angle of tilt. 3. Turned the PV (photovoltaic) module such that the sunlight falls perpendicular to the module. 4. Checked the dimension and orientation of the roof in case the mounting is done on the rooftop. 5. Placed the mounting fixture firmly at the desired location. 	<ol style="list-style-type: none"> 1. Solar Panels 2. Screwdriver 3. Wire cutter 4. Tester 5. Spanner 6. Pliers 	Practical
2	Mention the steps you would take in order to complete your installation targets.	<p>The candidate mentioned:</p> <ol style="list-style-type: none"> 1. Understand the individual work requirements and areas of operation. 2. Interact with the supervisor in order to understand the installation targets. 3. Prepare a work plan for each installation. 4. Plan the day's activities on a priority basis. 		Viva