**Solar Electric Technician (Level 2)**

**Module 5: Installation and assembly**

**E6: Assignment – Practice on site clearance**

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| **E6: ASSIGNMENT MEMO** | |
| **Date** | …. |
| **To** | Participants |
| **From** | Trainers |
| **Subject** | Practice site clearance |
| **What** | Perform site clearance |
| **Why** | To enable participants to perform site clearance |
| **How** | 1. Group of 2 or 4. 2. Gather the required tools/equipment. 3. As per the given instruction, perform site clearance. 4. Answer the questions and discuss the results. |
| **Time** | 90’ |

**For the given site condition, conduct a site clearance**

**Required tools/equipment:**

* Brooms, dustpans, and cleaning cloths
* Trash bags or waste bins
* Containers for recycling (for leftover wire, packaging, etc.)
* Labels for system components
* Tools for dismantling scaffolding or temporary structures (if needed)
* Safety gear (helmets, gloves, goggles, etc.)
* Vacuum cleaner (optional for indoor areas)
* Documentation checklist (to ensure no component is left unchecked)
* Portable storage for excess materials or leftover components
* Fire extinguisher (to check and ensure safety)
* First aid kit (for safety precaution)

**Instructions:**

Follow each step to conclude the task.

**Step 1: Ensure all team members are aware of the safety procedures before starting the site clearance.**

* Review safety measures that must be adhered to during the site clearance process (e.g., handling sharp materials, working with electricity, proper disposal of hazardous waste like batteries).
* Discuss the importance of wearing personal protective equipment (PPE) while clearing the site.
* Review safety protocols for checking the battery area for any potential hazards (such as leaks or exposed terminals).
* Put on appropriate PPE.
* Check the installation site for potential hazards before beginning the cleanup, including securing all electrical connections and confirming that the system is de-energized.

**Step 2: Collect and sort all leftover materials, components, and waste from the installation process.**

* Gathering unused materials: Each group member collects any leftover or unused components, including wires, connectors, bolts, and packaging materials.
* Sorting recyclable materials: Group the materials into recyclable (e.g., metal parts, packaging) and non-recyclable (e.g., damaged components) categories.
* Safe disposal: Package any leftover hazardous materials (such as battery waste) for safe disposal or recycling as per safety protocols.
* Labeling and storage: Label any unused parts or extra components and store them in designated containers for future use.

**Step 3: Clean the installation area, ensuring that it is free of debris and all tools are** **organized.**

* Indoor and outdoor cleaning: Sweep and clean the rooftop, battery storage area, and any indoor locations used during the installation.
* Removing temporary structures: Safely dismantle any temporary scaffolding, ladders, or protective structures used during the installation.
* Tool and equipment cleanup: Clean and store all tools and equipment, ensuring they are accounted for and in working order for future use.
* Cable management: Ensure that all cables are neatly tied and secured, with no loose or hanging wires.
* System component cleaning: Wipe down all system components (solar panels, inverters, batteries) to remove dust, fingerprints, or dirt accumulated during the installation.

**Step 4: Inspect the installation site and ensure all elements are completed and documented.**

* Inspection of installed system: Ensure all components (panels, inverters, batteries) are securely installed and comply with safety regulations.
* Labeling: Attach appropriate labels to critical components (e.g., inverters, battery terminals) for easy identification and safety purposes.
* System testing (Optional): If necessary, recheck connections and perform basic system tests to ensure no damage occurred during the cleanup process.
* Documentation: Complete a site clearance checklist to confirm all steps were followed, and the site is clean, safe, and ready for handover.
* Before and after photos: Take photos of the site before and after cleanup for records and verification.

**Step 5: Reflect on the cleanup process, discuss lessons learned, and identify areas for improvement.**

* Each group shares their experience, challenges faced, and the importance of proper site clearance.
* Discuss how the site clearance process impacts the overall success and safety of the solar installation project.

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| **Summary of site clearance process** |
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