4. Perform mensurations and calculation	4.1 Select measuring instruments 4.2 Carry out measurements and calculations	▪ Lecture-demonstration ▪ Self-paced instruction ▪ Group discussion ▪ Actual demonstration ▪ Classroom discussion	▪ Oral questioning ▪ Direct Observation ▪ Written test / questioning ▪ Actual demonstration
5. Maintain tools and equipment	5.1 Check condition of tools and equipment 5.2 Perform basic preventive maintenance 5.3 Sharpen edge and tooth cutting tools 5.4 Store tools and equipment	▪ Lecture – Demonstration ▪ Self-paced instruction ▪ Group discussion ▪ Classroom discussion	▪ Oral questioning ▪ Direct observation ▪ Written test/ questioning ▪ Practical exam

CORE COMPETENCIES
194 Hours

Unit of Competency	Learning Outcome	Methodology	Assessment Approach
1. Perform site assessment	1.1 Validate Parameters for the Installation 1.2 Prepare Installation Data Sheet 1.3 Prepare site assessment report	▪ Lecture-demonstration ▪ Case Studies ▪ Self-paced instruction ▪ Group discussion	▪ Direct observation with questions ▪ Demonstration with questions ▪ Oral/written examination
2. Check PV components/ materials compliance	2.1 Inspect and test components and materials 2.2. Interpret individual component manuals 2.3 Report test results	▪ Lecture-demonstration ▪ Case Studies ▪ Self-paced instruction ▪ Group discussion	▪ Direct observation with questions ▪ Oral/written examination

3. Install PV system	Preparing Documentation on PV Systems 3.1 Plan and prepare work 3.2. Complete relevant work related documents Installing PV Components 3.3 Install PV Module/Panel/Array 3.4 Install Controller 3.5 Install Battery 3.6 Install Inverter Installing Electrical Wiring 3.7 Prepare electrical tools, materials and equipment 3.8 Read and interpret electrical diagrams 3.9 Install lighting and power circuit using electrical non-metallic conduit. 3.10 Install light and power circuit using sheathed non-metallic cable 3.11 Install light and power circuit using electrical non-metallic surface raceway.	▪ Lecture-demonstration ▪ Self-paced instruction ▪ Group discussion	▪ Direct Observation ▪ and Questioning ▪ Demonstration ▪ Oral/written examination
4. Perform PV system testing and commissioning	4.1 Prepare to commission PV system 4.2 Commission PV system 4.3 Inspect and notify completion of work	▪ Lecture-demonstration ▪ Self-paced instruction ▪ Group discussion	▪ Oral/Written test ▪ Demonstration with questioning ▪ Observation with questioning ▪ Third party report