

Qualification Pack



Solar PV Installation Helper

QP Code: SGJ/Q0111

Version: 4.0

NSQF Level: 2

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SGJ/Q0111: Solar PV Installation Helper

Brief Job Description

Solar PV Installation Helper assists in performing the site survey, erection, commissioning activities along with maintenance activities for solar PV power plants and off grid solar systems.

Personal Attributes

This job requires the individual to be sincere, diligent, hardworking and attentive to effectively perform the work timely, while following all safety practices.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. [SGJ/N0130: Assist in installation and maintenance of solar PV power plant](#)
2. [SGJ/N0131: Assist in installation and maintenance of off- grid solar systems](#)
3. [SGJ/N0106: Maintain Personal Health & Safety at project site](#)
4. [DGT/VSQ/N0101: Employability Skills \(30 Hours\)](#)

Qualification Pack (QP) Parameters

Sector	Green Jobs
Sub-Sector	Renewable Energy
Occupation	Helper Electrician
Country	India
NSQF Level	2
Credits	9
Aligned to NCO/ISCO/ISIC Code	NCO-2015/9313.0501
Minimum Educational Qualification & Experience	Ability to read and write with 1 Year of experience Relevant experience in solar/power sector

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Minimum Level of Education for Training in School	
Pre-Requisite License or Training	NA
Minimum Job Entry Age	16 Years
Last Reviewed On	NA
Next Review Date	29/05/2027
NSQC Approval Date	30/05/2024
Version	4.0
Reference code on NQR	QG-02-ES-02632-2024-V2-SCGJ
NQR Version	2

Remarks:

Total 270 Notional Hours i.e. 09 Credits (Including Theory : 150 hours & Practical : 90 Hours + 30 hours On the Job Training)

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SGJ/N0130: Assist in installation and maintenance of solar PV power plant

Description

This unit provides a brief overview of Solar PV Sector as well as undertaking various support activities in installation and operation of solar PV power plant.

Scope

The scope covers the following :

- Introduction to Solar PV Sector in India
- Assist in installation and maintenance of Solar PV Power Plant

Elements and Performance Criteria

Introduction to Solar PV Sector in India

To be competent, the user/individual on the job must be able to:

- PC1.** discuss the role of Solar PV Installation helper, its importance in the sector and the advantages of doing the course.
- PC2.** discuss the basic aspects of solar energy and power generation.
- PC3.** discuss the broader overview of solar PV technology and sector in India.
- PC4.** discuss the types of solar PV Power plants including rooftop and ground mounted PV Power Plants and their working principles.
- PC5.** discuss how to identify various tools used in solar power plants.
- PC6.** discuss the precautions to be followed while using electrical and mechanical components.
- PC7.** discuss the importance of basic skills for communication; along with how to work effectively with others while respecting gender and disability concerns.
- PC8.** discuss and show the importance of reading and interpreting signs, notices and/or cautions at project site.
- PC9.** show how to use various tools used in solar power plants.
- PC10.** show the precautions to be followed while using electrical and mechanical components at solar project site.
- PC11.** show how to adhere to the discipline during the training program.
- PC12.** show how to read and interpret signs, notices and/or cautions at project site.

Assist in installation and maintenance of Solar PV Power Plant

To be competent, the user/individual on the job must be able to:

- PC13.** discuss and show how to identify various components and tools of solar PV power plants.
- PC14.** discuss and show how to assist in survey of the site for installation of solar power plant.
- PC15.** discuss to make foundations for module mounting structures and other components under supervision.
- PC16.** discuss how to install the sensor used of temperature and radiation measurement .
- PC17.** discuss and show how to assist in measurement and recording of readings from various equipment.

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- PC18.** discuss the use of Robotic cleaning and its operation and assist in replacing.
- PC19.** discuss and show how to carry out cleaning of modules as per schedule and standard procedure and remove any shadowing objects.
- PC20.** discuss and show how to assist in replacing defective modules.
- PC21.** discuss and show how to assist in repair and replacement of broken foundations for modules, combiner boxes, inverters and transformers, etc.
- PC22.** discuss and show how to clean the work area after completing the installation and maintenance activity.
- PC23.** discuss and show how to remove all the tools, consumables used from the work area and dispose of any waste materials in accordance with safe working practices.
- PC24.** discuss how to identify processes where material and resources utilization can be optimized.
- PC25.** show how to perform visual inspection for fault identification as per schedule.
- PC26.** show how to job completion report could be filled.

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** how to obtain authorization from specified field safety officer and supervisor
- KU2.** legislative, organizational, site requirements and procedures
- KU3.** basics of solar energy and power generation
- KU4.** usage and handling procedure of solar modules
- KU5.** mechanical and electrical equipment and their functioning
- KU6.** cleaning procedures for various equipment
- KU7.** tools used in activities at solar PV power plant site
- KU8.** precautions to be taken while handling different electrical and mechanical products
- KU9.** the maintenance schedule for the solar PV power plant
- KU10.** importance of wearing protective clothing and other safety gear while carrying out maintenance activities (PPEs)
- KU11.** waste disposal procedures
- KU12.** ways to recognize common electrical problems
- KU13.** common practices of conserving electricity
- KU14.** layout of the workstation and electrical and thermal equipment used
- KU15.** ways of efficiently managing material and water
- KU16.** clean the work area after completing the installation and maintenance activity
- KU17.** of basic skills for communication, along with how to work effectively with others while respecting gender and disability concerns
- KU18.** importance of reading and interpreting signs, notices and/or cautions at project site

Generic Skills (GS)

User/individual on the job needs to know how to:

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- GS1.** complete documentation work applicable to the role
- GS2.** read and write in vernacular/English language
- GS3.** read various color codes, as per standard electrical, mechanical and civil nomenclature
- GS4.** express statements with required clarity
- GS5.** participate in and understand the main points of simple discussions
- GS6.** follow organization's rule-based decision making process
- GS7.** work constructively and collaboratively with others
- GS8.** follow organisation's code of conduct
- GS9.** approach relevant authority when required
- GS10.** ask questions for better understanding
- GS11.** communicate with team members and colleagues on the significance of greening of jobs
- GS12.** complete documentation work applicable to the role

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Introduction to Solar PV Sector in India</i>	25	17	-	-
PC1. discuss the role of Solar PV Installation helper, its importance in the sector and the advantages of doing the course.	3	-	-	-
PC2. discuss the basic aspects of solar energy and power generation.	3	-	-	-
PC3. discuss the broader overview of solar PV technology and sector in India.	3	-	-	-
PC4. discuss the types of solar PV Power plants including rooftop and ground mounted PV Power Plants and their working principles.	3	-	-	-
PC5. discuss how to identify various tools used in solar power plants.	3	-	-	-
PC6. discuss the precautions to be followed while using electrical and mechanical components.	3	-	-	-
PC7. discuss the importance of basic skills for communication; along with how to work effectively with others while respecting gender and disability concerns.	3	-	-	-
PC8. discuss and show the importance of reading and interpreting signs, notices and/or cautions at project site.	4	4	-	-
PC9. show how to use various tools used in solar power plants.	-	3	-	-
PC10. show the precautions to be followed while using electrical and mechanical components at solar project site.	-	3	-	-
PC11. show how to adhere to the discipline during the training program.	-	3	-	-
PC12. show how to read and interpret signs, notices and/or cautions at project site.	-	4	-	-
<i>Assist in installation and maintenance of Solar PV Power Plant</i>	37	21	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC13. discuss and show how to identify various components and tools of solar PV power plants.	2	-	-	-
PC14. discuss and show how to assist in survey of the site for installation of solar power plant.	3	3	-	-
PC15. discuss to make foundations for module mounting structures and other components under supervision.	2	-	-	-
PC16. discuss how to install the sensor used of temperature and radiation measurement .	2	-	-	-
PC17. discuss and show how to assist in measurement and recording of readings from various equipment.	2	3	-	-
PC18. discuss the use of Robotic cleaning and its operation and assist in replacing.	2	-	-	-
PC19. discuss and show how to carry out cleaning of modules as per schedule and standard procedure and remove any shadowing objects.	3	3	-	-
PC20. discuss and show how to assist in replacing defective modules.	3	3	-	-
PC21. discuss and show how to assist in repair and replacement of broken foundations for modules, combiner boxes, inverters and transformers, etc.	3	3	-	-
PC22. discuss and show how to clean the work area after completing the installation and maintenance activity.	3	3	-	-
PC23. discuss and show how to remove all the tools, consumables used from the work area and dispose of any waste materials in accordance with safe working practices.	3	3	-	-
PC24. discuss how to identify processes where material and resources utilization can be optimized.	3	-	-	-
PC25. show how to perform visual inspection for fault identification as per schedule.	3	-	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC26. show how to job completion report could be filled.	3	-	-	-
NOS Total	62	38	-	-

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National Occupational Standards (NOS) Parameters

NOS Code	SGJ/N0130
NOS Name	Assist in installation and maintenance of solar PV power plant
Sector	Green Jobs
Sub-Sector	Renewable Energy
Occupation	Installation, Operation and Maintenance
NSQF Level	2
Credits	3
Version	4.0
Last Reviewed Date	30/05/2024
Next Review Date	29/05/2027
NSQF Clearance Date	30/05/2024

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SGJ/N0131: Assist in installation and maintenance of off- grid solar systems

Description

This unit is about undertaking key supporting activities in installation and maintenance of off-grid solar systems.

Scope

The scope covers the following :

- Assist in installation and Maintenance of off- grid solar systems

Elements and Performance Criteria

Assist in installation and Maintenance of off- grid solar systems

To be competent, the user/individual on the job must be able to:

- PC1.** discuss and show how to assist in survey of the site for installation of solar modules and solar pump.
- PC2.** discuss and show how to visually inspect for physical defects of equipment.
- PC3.** discuss and show how to assist in laying of cables and pipes under supervision.
- PC4.** discuss how to read and record different data of solar power generation.
- PC5.** discuss and show how to assist in installation and regular maintenance.
- PC6.** discuss and show how to make proper foundation under supervision.
- PC7.** discuss and show how to assist in erection of the pole under supervision.
- PC8.** discuss how to mount and fix the structures and modules on the foundations under supervision.
- PC9.** discuss and show how to assist in installation and regular maintenance of street lights.
- PC10.** discuss and show how to visually inspect all components including batteries, solar modules, cables of small solar systems.
- PC11.** discuss and show how to assist in installation and regular maintenance of solar modules, lights, fan, etc.
- PC12.** discuss to assist in cleaning of PV module, including Dry/ Wet/ and robotic cleaning.
- PC13.** discuss and show how to clean the work area after completing the installation.

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** obtain authorization from specified field safety officer and supervisor
- KU2.** legislative, organization, site requirements and procedures
- KU3.** basics of solar energy, electricity and power generation

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- KU4.** usage and handling procedure of solar modules, solar pumps, solar street lights, solar home lighting systems and related equipment
- KU5.** different mechanical and electrical equipment, their functioning and precautions
- KU6.** cleaning procedures for various equipment
- KU7.** tools involved in installation and maintenance activities
- KU8.** importance of wearing protective clothing and other safety gear while carrying out maintenance activities (PPEs)
- KU9.** waste disposal procedures
- KU10.** basics of electricity and prevalent energy efficient devices
- KU11.** efficient and inefficient utilization of material and water
- KU12.** common sources of pollution and ways to minimize it

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** complete documentation work applicable to the role
- GS2.** read and write in vernacular/English language
- GS3.** read health and safety instructions and signage
- GS4.** read from different sources- books, screens in machines and signage
- GS5.** read various color codes, as per standard electrical, mechanical and civil nomenclature
- GS6.** express statements with required clarity
- GS7.** participate in and understand the main points of simple discussions
- GS8.** follow organization's rule-based decision making process
- GS9.** work constructively and collaboratively with others
- GS10.** follow organisation's code of conduct
- GS11.** approach relevant authority when required
- GS12.** ask questions for better understanding
- GS13.** make timely decisions for efficient utilization of resources
- GS14.** record data on waste disposal

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Assist in installation and Maintenance of off- grid solar systems</i>	55	45	-	-
PC1. discuss and show how to assist in survey of the site for installation of solar modules and solar pump.	3	3	-	-
PC2. discuss and show how to visually inspect for physical defects of equipment.	4	4	-	-
PC3. discuss and show how to assist in laying of cables and pipes under supervision.	5	5	-	-
PC4. discuss how to read and record different data of solar power generation.	4	-	-	-
PC5. discuss and show how to assist in installation and regular maintenance.	4	4	-	-
PC6. discuss and show how to make proper foundation under supervision.	5	5	-	-
PC7. discuss and show how to assist in erection of the pole under supervision.	4	4	-	-
PC8. discuss how to mount and fix the structures and modules on the foundations under supervision.	5	-	-	-
PC9. discuss and show how to assist in installation and regular maintenance of street lights.	5	5	-	-
PC10. discuss and show how to visually inspect all components including batteries, solar modules, cables of small solar systems.	4	5	-	-
PC11. discuss and show how to assist in installation and regular maintenance of solar modules, lights, fan, etc.	4	5	-	-
PC12. discuss to assist in cleaning of PV module, including Dry/ Wet/ and robotic cleaning.	4	-	-	-
PC13. discuss and show how to clean the work area after completing the installation.	4	5	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
NOS Total	55	45	-	-

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National Occupational Standards (NOS) Parameters

NOS Code	SGJ/N0131
NOS Name	Assist in installation and maintenance of off- grid solar systems
Sector	Green Jobs
Sub-Sector	Renewable Energy
Occupation	Installation, Operation and Maintenance
NSQF Level	2
Credits	3
Version	4.0
Last Reviewed Date	30/05/2024
Next Review Date	29/05/2027
NSQF Clearance Date	30/05/2024

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SGJ/N0106: Maintain Personal Health & Safety at project site

Description

This unit is about maintaining health, safety and hygiene at workplace.

Scope

The scope covers the following :

- Adopt safe practices at workplace
- Follow emergencies, rescue and first aid procedures
- Follow good housekeeping practices and infection control guidelines

Elements and Performance Criteria

Adopt safe practices at workplace

To be competent, the user/individual on the job must be able to:

- PC1.** explain the requirements for safe work area
- PC2.** identify and report any hazards, risks or breaches in site safety to the appropriate authority
- PC3.** follow recommended safe practices in handling physical, chemical, electrical and fire hazards and risk
- PC4.** use appropriate Personal Protective Equipment(PPE) for head, eye, hand, ear, face, body and fall protection specific to work condition
- PC5.** follow safe practices when working at height and in confined space
- PC6.** handle all required tools, tackles, materials and equipment safely
- PC7.** identify expiry dates, wear and tear issues of specified equipment and accordingly inform supervisor and undertake corrective measures
- PC8.** apply ergonomic principles wherever required
- PC9.** use safety signs, labels, charts and notices at workplace
- PC10.** identify work safety procedures and instructions for handling heavy components

Follow emergencies, rescue and first aid procedures

To be competent, the user/individual on the job must be able to:

- PC11.** follow emergency and evacuation procedures in case of accidents, fires and natural calamities
- PC12.** use appropriate fire extinguishers for different types of fire
- PC13.** administer first aid to victim in case of various medical emergencies including bleeding, burns, choking, electric shock, cardiac arrest, etc.
- PC14.** use correct method to move injured person during an emergency

Follow good housekeeping practices and infection control guidelines

To be competent, the user/individual on the job must be able to:

- PC15.** follow recommended personal hygiene, workplace hygiene and sanitation practices
- PC16.** clean and disinfect all material, tools and supplies before and after use

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- PC17.** report immediately to concerned authorities regarding sign and symptoms of illness of self and other colleagues
- PC18.** follow processes specified for disposal of hazardous waste

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** importance of safety drills
- KU2.** importance of working in clean and safe environment
- KU3.** health and safety roles and responsibilities of relevant personnel within and outside the organization
- KU4.** reporting procedures in case of breaches or hazards for site safety, accidents and emergency situations
- KU5.** basic ergonomic principle
- KU6.** key internal and external source of health and safety information
- KU7.** meaning of hazards, risk and near miss
- KU8.** importance of Personal Protective Equipment required for specific job
- KU9.** forms and classification of hazardous substances
- KU10.** health effect associated with exposure to environmental pollution
- KU11.** housekeeping activities relevant to task
- KU12.** symptoms of infection like fever, cough, swelling and inflammation

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** record data on waste disposal at workplace
- GS2.** complete statutory documents relevant to safety and hygiene
- GS3.** fill safety formats for near miss, unsafe condition
- GS4.** identify potential safety risk and report to appropriate authority
- GS5.** communicate and collaborate with others to incorporate sustainable practices
- GS6.** interpret general safety guidelines, labels, charts and signage

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Adopt safe practices at workplace</i>	13	19	-	-
PC1. explain the requirements for safe work area	2	-	-	-
PC2. identify and report any hazards, risks or breaches in site safety to the appropriate authority	2	3	-	-
PC3. follow recommended safe practices in handling physical, chemical, electrical and fire hazards and risk	1	2	-	-
PC4. use appropriate Personal Protective Equipment(PPE) for head, eye, hand, ear, face, body and fall protection specific to work condition	2	4	-	-
PC5. follow safe practices when working at height and in confined space	1	1	-	-
PC6. handle all required tools, tackles, materials and equipment safely	1	2	-	-
PC7. identify expiry dates, wear and tear issues of specified equipment and accordingly inform supervisor and undertake corrective measures	1	2	-	-
PC8. apply ergonomic principles wherever required	1	2	-	-
PC9. use safety signs, labels, charts and notices at workplace	1	1	-	-
PC10. identify work safety procedures and instructions for handling heavy components	1	2	-	-
<i>Follow emergencies, rescue and first aid procedures</i>	4	4	-	-
PC11. follow emergency and evacuation procedures in case of accidents, fires and natural calamities	1	1	-	-
PC12. use appropriate fire extinguishers for different types of fire	1	1	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC13. administer first aid to victim in case of various medical emergencies including bleeding, burns, choking, electric shock, cardiac arrest, etc.	1	1	-	-
PC14. use correct method to move injured person during an emergency	1	1	-	-
<i>Follow good housekeeping practices and infection control guidelines</i>	4	6	-	-
PC15. follow recommended personal hygiene, workplace hygiene and sanitation practices	1	1	-	-
PC16. clean and disinfect all material, tools and supplies before and after use	1	1	-	-
PC17. report immediately to concerned authorities regarding sign and symptoms of illness of self and other colleagues	1	2	-	-
PC18. follow processes specified for disposal of hazardous waste	1	2	-	-
NOS Total	21	29	-	-

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National Occupational Standards (NOS) Parameters

NOS Code	SGJ/N0106
NOS Name	Maintain Personal Health & Safety at project site
Sector	Green Jobs
Sub-Sector	Renewable Energy
Occupation	Health & Safety , Installation, Solar Panel Installation Technician
NSQF Level	4
Credits	1
Version	4.0
Last Reviewed Date	18/02/2025
Next Review Date	17/02/2028
NSQC Clearance Date	18/02/2025

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DGT/VSQ/N0101: Employability Skills (30 Hours)

Description

This unit is about employability skills, Constitutional values, becoming a professional in the 21st Century, digital, financial, and legal literacy, diversity and Inclusion, English and communication skills, customer service, entrepreneurship, and apprenticeship, getting ready for jobs and career development.

Scope

The scope covers the following :

- Introduction to Employability Skills
- Constitutional values - Citizenship
- Becoming a Professional in the 21st Century
- Basic English Skills
- Communication Skills
- Diversity & Inclusion
- Financial and Legal Literacy
- Essential Digital Skills
- Entrepreneurship
- Customer Service
- Getting ready for Apprenticeship & Jobs

Elements and Performance Criteria

Introduction to Employability Skills

To be competent, the user/individual on the job must be able to:

PC1. understand the significance of employability skills in meeting the job requirements

Constitutional values - Citizenship

To be competent, the user/individual on the job must be able to:

PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices

Becoming a Professional in the 21st Century

To be competent, the user/individual on the job must be able to:

PC3. explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.

Basic English Skills

To be competent, the user/individual on the job must be able to:

PC4. speak with others using some basic English phrases or sentences

Communication Skills

To be competent, the user/individual on the job must be able to:

PC5. follow good manners while communicating with others

PC6. work with others in a team

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Diversity & Inclusion

To be competent, the user/individual on the job must be able to:

PC7. communicate and behave appropriately with all genders and PwD

PC8. report any issues related to sexual harassment

Financial and Legal Literacy

To be competent, the user/individual on the job must be able to:

PC9. use various financial products and services safely and securely

PC10. calculate income, expenses, savings etc.

PC11. approach the concerned authorities for any exploitation as per legal rights and laws

Essential Digital Skills

To be competent, the user/individual on the job must be able to:

PC12. operate digital devices and use its features and applications securely and safely

PC13. use internet and social media platforms securely and safely

Entrepreneurship

To be competent, the user/individual on the job must be able to:

PC14. identify and assess opportunities for potential business

PC15. identify sources for arranging money and associated financial and legal challenges

Customer Service

To be competent, the user/individual on the job must be able to:

PC16. identify different types of customers

PC17. identify customer needs and address them appropriately

PC18. follow appropriate hygiene and grooming standards

Getting ready for apprenticeship & Jobs

To be competent, the user/individual on the job must be able to:

PC19. create a basic biodata

PC20. search for suitable jobs and apply

PC21. identify and register apprenticeship opportunities as per requirement

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. need for employability skills

KU2. various constitutional and personal values

KU3. different environmentally sustainable practices and their importance

KU4. Twenty first (21st) century skills and their importance

KU5. how to use basic spoken English language

KU6. Do and dont of effective communication

KU7. inclusivity and its importance

KU8. different types of disabilities and appropriate communication and behaviour towards PwD

KU9. different types of financial products and services

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- KU10.** how to compute income and expenses
- KU11.** importance of maintaining safety and security in financial transactions
- KU12.** different legal rights and laws
- KU13.** how to operate digital devices and applications safely and securely
- KU14.** ways to identify business opportunities
- KU15.** types of customers and their needs
- KU16.** how to apply for a job and prepare for an interview
- KU17.** apprenticeship scheme and the process of registering on apprenticeship portal

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** communicate effectively using appropriate language
- GS2.** behave politely and appropriately with all
- GS3.** perform basic calculations
- GS4.** solve problems effectively
- GS5.** be careful and attentive at work
- GS6.** use time effectively
- GS7.** maintain hygiene and sanitisation to avoid infection

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Introduction to Employability Skills</i>	1	1	-	-
PC1. understand the significance of employability skills in meeting the job requirements	-	-	-	-
<i>Constitutional values - Citizenship</i>	1	1	-	-
PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-
<i>Becoming a Professional in the 21st Century</i>	1	3	-	-
PC3. explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.	-	-	-	-
<i>Basic English Skills</i>	2	3	-	-
PC4. speak with others using some basic English phrases or sentences	-	-	-	-
<i>Communication Skills</i>	1	1	-	-
PC5. follow good manners while communicating with others	-	-	-	-
PC6. work with others in a team	-	-	-	-
<i>Diversity & Inclusion</i>	1	1	-	-
PC7. communicate and behave appropriately with all genders and PwD	-	-	-	-
PC8. report any issues related to sexual harassment	-	-	-	-
<i>Financial and Legal Literacy</i>	3	4	-	-
PC9. use various financial products and services safely and securely	-	-	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC10. calculate income, expenses, savings etc.	-	-	-	-
PC11. approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-
<i>Essential Digital Skills</i>	4	6	-	-
PC12. operate digital devices and use its features and applications securely and safely	-	-	-	-
PC13. use internet and social media platforms securely and safely	-	-	-	-
<i>Entrepreneurship</i>	3	5	-	-
PC14. identify and assess opportunities for potential business	-	-	-	-
PC15. identify sources for arranging money and associated financial and legal challenges	-	-	-	-
<i>Customer Service</i>	2	2	-	-
PC16. identify different types of customers	-	-	-	-
PC17. identify customer needs and address them appropriately	-	-	-	-
PC18. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship & Jobs</i>	1	3	-	-
PC19. create a basic biodata	-	-	-	-
PC20. search for suitable jobs and apply	-	-	-	-
PC21. identify and register apprenticeship opportunities as per requirement	-	-	-	-
NOS Total	20	30	-	-

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National Occupational Standards (NOS) Parameters

NOS Code	DGT/VSQ/N0101
NOS Name	Employability Skills (30 Hours)
Sector	Cross Sectoral
Sub-Sector	Professional Skills
Occupation	Employability
NSQF Level	2
Credits	1
Version	1.0
Last Reviewed Date	08/05/2025
Next Review Date	30/04/2028
NSQC Clearance Date	08/05/2025

Assessment Guidelines and Assessment Weightage

Assessment Guidelines

1. Criteria for assessment for each Qualification will be created by the Sector Skill Council. Each Element/ Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each Element/ PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/ training center based on these criteria.
6. To pass the assessment, every trainee should score the Recommended Pass % aggregate for the Qualification.
7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification.

Qualification Pack

Minimum Aggregate Passing % at QP Level : 70

(Please note: Every Trainee should score a minimum aggregate passing percentage as specified above, to successfully clear the Qualification Pack assessment.)

Assessment Weightage

Compulsory NOS

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
SGJ/N0130.Assist in installation and maintenance of solar PV power plant	62	38	0	0	100	33
SGJ/N0131.Assist in installation and maintenance of off- grid solar systems	55	45	0	0	100	33
SGJ/N0106.Maintain Personal Health & Safety at project site	21	29	-	-	50	17
DGT/VSQ/N0101.Employability Skills (30 Hours)	20	30	-	-	50	17
Total	158	142	-	-	300	100

Qualification Pack

Acronyms

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training

Qualification Pack

Glossary

Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria (PC)	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.

Qualification Pack

Knowledge and Understanding (KU)	Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.
Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills/ Generic Skills (GS)	Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.
Electives	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.
Options	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.