





### QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR GREEN JOBS

# What are Occupational Standards (OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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### Introduction

### **Qualifications Pack - Solar PV Project Helper**

**SECTOR:** GREEN JOBS

**SUB-SECTOR: RENEWABLE ENERGY** 

**OCCUPATION: INSTALLATION, OPERATION AND MAINTENANCE** 

**REFERENCE ID:** SGJ/Q0111

**ALIGNED TO:** NCO-2015/ 9313. 0501

**Brief Job Description:** Solar PV Project Helper assists in site survey, erection and commissioning activities and maintenance activities for solar PV power plants and off grid solar systems

**Personal Attributes:** This job requires the individual to concentrate on the job at hand and complete it without any accidents. Awareness and adherence to safety protocols are critical attributes for individuals performing this role. He/she must be good with following instructions of the supervisor.







Qualifications Pack Code	SGJ/Q0111			
Job Role	Solar PV Project Helper [This job role is applicable in national scenarios only]			
Credits (NSQF)	TBD Version number 1.0			
Sector	Green Jobs	Drafted on	01/09/2016	
Sub-sector	Renewable Energy	Last reviewed on	14/06/2017	
Occupation	Installation, Operation and Maintenance	Next review date	30/09/2019	
NSQC Clearance on	03/08/2018			

Job Role	Solar PV Project Helper
Role Description	Solar PV Project Helper assists in the activities related to erection, commissioning and maintenance of solar PV power plants and installation and maintenance of off grid solar systems
NSQF level	2
Minimum Educational Qualifications	5 <sup>th</sup> pass preferably
Maximum Educational Qualifications	Not Applicable
Prerequisite License or Training	N/A
Minimum Job Entry Age	18 years
Experience	Not required
Applicable National Occupational Standards (NOS)	<ol> <li>Compulsory:</li> <li>SGG/N0130: Assist in installation and maintenance of solar PV power plant</li> <li>SGJ/N0131: Assist in installation and maintenance of off grid solar systems</li> <li>SGJ/N0148: Maintain personal health &amp; safety at workplace</li> </ol>
Performance Criteria	As described in the relevant OS units







Keywords /Terms	Description		
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	characteristics and interests.  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	Jobrole 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 they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.		
Performance Criteria	Performance criteria 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 OSs, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.		
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.		
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.		
Knowledge and Understanding	Knowledge and understanding are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual need 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	Core skills or generic skills are a group of skills that are the key to
Skills	learning and working in today's world. These skills are typically needed
	in any work environment in today's world. In the context of the OS,
	these include communication related skills that are applicable to most
	job roles.

Keywords /Terms	Description		
SCGJ	Skill Council for green jobs		
NOS	National Occupational Standards		
NSQF	National Skills Qualification Framework		
NVEQF	National Vocational Educational Qualification Framework		
NVQF	National Vocational Qualification Framework		
OS	Occupational Standards		
PC	Performance Criteria		
QP	Qualification Pack		
SSC	Sector Skills Council		
DC	Direct Current		
AC	Alternating Current		
PV	Photovoltaic		
O&M	Operation and Maintenance		
ERP	Enterprise Resource Planning		
OHS	Occupational Health and Safety		

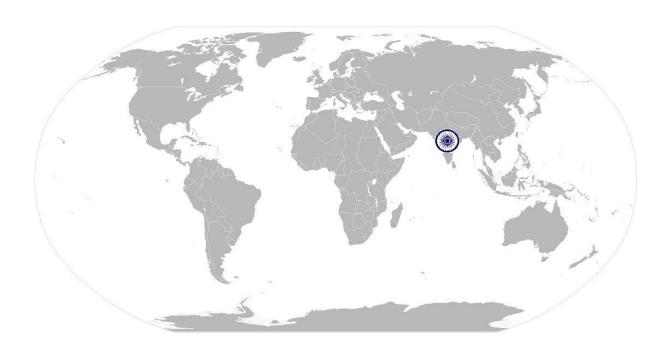






SCGJ

# National Occupational Standard



### **Overview**

This unit is about assisting in installation and maintenance of solar PV power plant







### Assist in installation and maintenance of solar PV power plant

Unit Code	SGJ/N0130		
Unit Title (Task)	Assist in installation and maintenance of solar PV power plant		
Scope	This unit/task covers the following: <ul><li>identification of tools and components</li><li>assist in the activities at a solar PV power plant site</li><li>completing the work</li></ul>		
Performance Criteria(P	· · · · · · · · · · · · · · · · · · ·		
Element	Performance Criteria		
Identification of tools and components	To be competent, the user/ individual must be able to: PC1. identify components of solar PV power plants PC2. identify the tools used at a solar PV power plant site		
Assist in the activities at a solar PV power plant site	To be competent, the user/ individual must be able to: PC3. assist in survey of the site for installation of solar power plant PC4. make foundations for module mounting structures and other components under supervision PC5. assist in measurement and recording of readings from various equipment PC6. carry out cleaning of modules as per schedule and standard procedure and remove any shadowing objects PC7. perform visual inspection for fault identification as per schedule PC8. assist in replacing defective modules from the PV module arrays PC9. assist in repair and replacement of broken foundations for modules, combiner boxes, inverters and transformers, etc.		
Completing the work	To be competent, the user/ individual must be able to: PC10. clean the work area after completing the installation and maintenance activity PC11. remove all the tools, consumables used from the work area and dispose of any waste materials in accordance with safe working practices PC12. fill in the job completion		
Knowledge and Unders	standing (K)		
A. Organizational Context (Knowledge of the organization and its processes)	The user/individual on the job needs to know and understand:  KA1. obtain authorization from specified field safety officer and supervisor  KA2. legislative, organization, site requirements and procedures		
B. Technical Knowledge	The user/individual on the job needs to know and understand:  KB1. basics on solar energy and power generation  KB2. usage and handling procedure of solar modules  KB3. mechanical and electrical equipment and their functioning  KB4. cleaning procedures for various equipment  KB5. tools used in activities at solar PV power plant site  KB6. precautions to be taken while handling different electrical and mechanical products  KB7. the maintenance schedule for the solar PV power plant  KB8. importance of wearing protective clothing and other safety gear while carrying out maintenance activities (PPEs)  KB9. waste disposal procedures		







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

Sk	ills (S)	ASSIST IN INSTANDANCE OF MAIN TO POWER Plant			
	Core Skills/	Writing skills			
	Generic Skills	The user/ individual on the job needs to know and understand:			
		SA1. fill up documentation applicable to one's role			
		Reading skills			
		The user/ individual on the job needs to know and understand:			
		SA2. vernacular/English language			
		SA3. how to read health and safety instructions and signage			
		SA4. how to read from different sources- books, screens in machines and signage			
		SA5. the various color codes, as per standard electrical, mechanical and civil			
		nomenclature			
		Oral communication (listening and speaking skills)			
		The user/ individual on the job needs to know and understand:			
		SA6. express statements with required clarity			
		SA7. participate in and understand the main points of simple discussions			
В.	<b>Professional Skills</b>	Decision Making			
		The user/individual on the job needs to know and understand how to:			
		SB1. follow organization rule-based decision making process			
		Plan and Organize			
		The user/individual on the job needs to know and understand how to:			
		SB2. work constructively and collaboratively with others			
		Customer Centricity			
		The user/individual on the job needs to know and understand how to:			
		SB3. follow organisation code of conduct			
		Problem Solving			
		The user/individual on the job needs to know and understand how to:			
		SB4. approach relevant authority when required			
		Analytical Thinking			
		N.A.			
		Critical Thinking			
		The user/individual on the job needs to know and understand how to:			
		SB5. ask questions for better understanding			



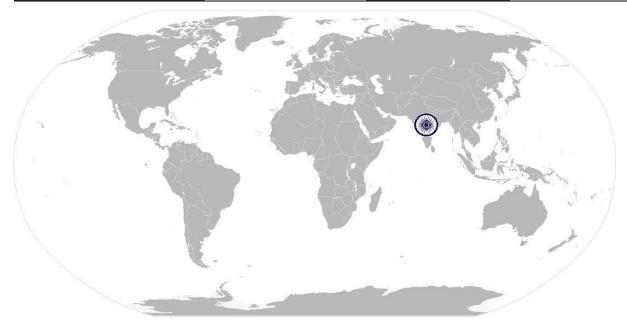




### Assist in installation and maintenance of solar PV power plant

# **NOS Version Control**

NOS Code	SGJ/N0130		
Credits (NSQF)	TBD	Version number	1.0
Industry	Green Jobs	Drafted on	01/09/2016
Industry Sub-sector	Renewable Energy	Last reviewed on	14/06/2017
Occupation	Installation, Operation and Maintenance	Next review date	30/09/2019



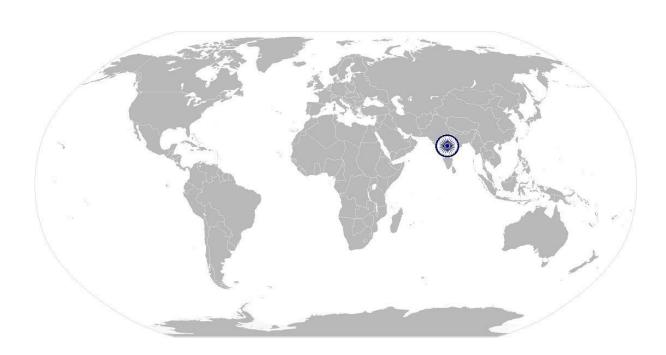






Assist in installation and maintenance of off grid solar systems

# National Occupational Standard



## **Overview**

This unit is about assisting in installation and maintenance of off grid solar systems







SGJ/N0131	Assist in installation and maintenance of off grid solar systems
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Unit Code	SGJ/N0131		
Unit Title (Task)	Assist installation and maintenance of off grid solar systems		
Description	This unit is about in installation and maintenance of off grid solar systems		
Scope	This unit/task covers the following:		
	<ul> <li>assist in installation and maintenance of solar PV pumps</li> </ul>		
	<ul> <li>assist in installation and maintenance of solar street lighting systems</li> </ul>		
	assist in installation and maintenance of small solar systems		
Performance Criteria(P	PC) w.r.t. the Scope		
Element	Performance Criteria		
Assist in installation	To be competent, the user/individual must be able to:		
and maintenance of	PC1. assist in survey of the site for installation of solar modules and pump		
solar PV pumps	PC2. visually inspect for physical defects of equipments		
	PC3. mount and fix the structures and modules on the foundations under		
	supervision		
	PC4. assist in laying of cables and pipes under supervision		
	PC5. assist in installation and regular maintenance of solar PV pumps		
	PC6. clean the work area after installation		
Assist in installation	To be competent, the user/individual must be able to:		
and maintenance of	PC7. make proper foundation under supervision		
solar street lighting	PC8. assist in erection of the pole under supervision		
systems	PC9. assist in installation and regular maintenance of street lights		
	PC10. clean the work area after installation		
Assist in installation	To be competent, the user/ individual must be able to:		
and maintenance of	PC11. visually inspect all components including batteries, solar modules, cables of		
small solar PV			
systems	small solar systems		
•	PC12. assist in installation and regular maintenance of solar modules, lights, fan,		
	etc.		
War Indiana Illinda	PC13. clean the work area after completing the installation		
Knowledge and Unders			
A. Organizational	The user/individual on the job needs to know and understand:  KA1. obtain authorization from specified field safety officer and supervisor		
Context (Knowledge of the	KA2. legislative, organization, site requirements and procedures		
organization and	KAZ. Tegistative, organization, site requirements and procedures		
its processes)			
B. Technical	The user/individual on the job needs to know and understand:		
Knowledge	KB1. basics on solar energy, electricity and power generation		
	KB2. usage and handling procedure of solar modules, solar pumps, solar street		
	lights, solar home lighting systems and related equipment		
	KB3. different mechanical and electrical equipment, their functioning and		
	precautions		
	KB4. cleaning procedures for various equipment		
	KB5. tools involved in installation and maintenance activities		
	KB6. importance of wearing protective clothing and other safety gear while		
	carrying out maintenance activities (PPEs)		
	KB7. waste disposal procedures		







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

Skills (S)				
A. Core Skills/	Writing skills			
Generic Skills	The user/ individual on the job needs to know and understand:			
	SA1. fill up documentation applicable to one's role			
	Reading skills			
	The user/ individual on the job needs to know and understand:			
	SA2. vernacular/English language			
	SA3. how to read health and safety instructions and signage			
	SA4. how to read from different sources- books, screens in machines and signage			
	SA5. the various colour codes, as per standard electrical, mechanical and civil			
	nomenclature			
	Oral communication			
	The user/ individual on the job needs to know and understand:			
	SA6. express statements with required clarity			
	SA7. participate in and understand the main points of simple discussions			
B. Professional Skills	Decision Making			
	The user/individual on the job needs to know and understand how to:			
	SB1. follow organization rule-based decision making process			
	Plan and Organize			
	The user/individual on the job needs to know and understand how to:			
	SB2. work constructively and collaboratively with others			
	Customer Centricity			
	The user/individual on the job needs to know and understand how to:			
	SB3. follow organisation code of conduct			
	Problem Solving			
	The user/individual on the job needs to know and understand how to:			
	SB4. approach relevant authority when required			
	Analytical Thinking			
	SB5. N.A.			
	Critical Thinking			
	The user/individual on the job needs to know and understand how to:			
	SB6. ask questions for better understanding			



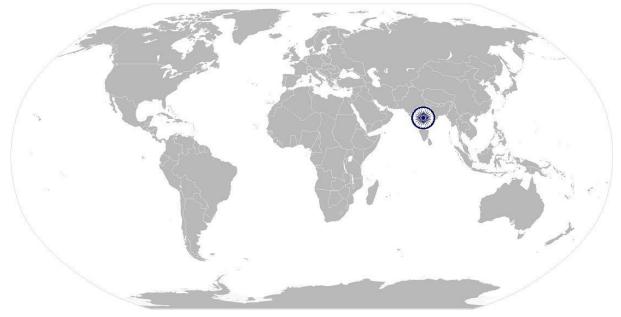




### Assist in installation and maintenance of off grid solar systems

# **NOS Version Control**

NOS Code	SGJ/N0131		
Credits (NSQF)	TBD	Version number	1.0
Industry	Green Jobs	Drafted on	01/09/2016
Industry Sub-sector	Renewable Energy	Last reviewed on	16/06/2017
Occupation	Installation, operation and maintenance	Next review date	30/09/2019

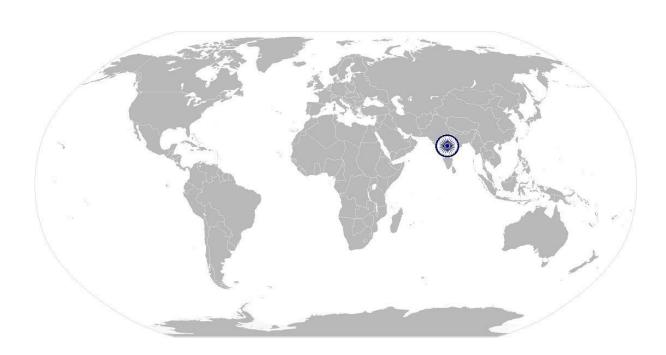






SCGJ

# National Occupational Standard



### **Overview**

This unit is about maintaining personal health & safety at workplace







SGJ/N0148 Maintain personal health & safety at workplace

Unit Code	SGJ/N0148
Unit Title (Task)	Maintain personal health & safety at workplace
Description	This unit is about maintaining health & safety at workplace
Scope	This unit/task covers the following:
	follow safe work procedure
	use of personal protective equipment
	identify safety hazards
	<ul> <li>follow instructions for working at height</li> </ul>
Performance Criteria(P	C) w.r.t. the Scope
Element	Performance Criteria
Follow safe work	To be competent, the user/individual on the job must be able to:
procedure	PC1. identify requirements for safe work area
	PC2. identify contact person when workplace safety policies are violated and
	provide information about incident/violation
	PC3. identify location of first aid materials and administer first aid related to the
	work being carried out
Use of personal	To be competent, the user/individual on the job must be able to:
protective equipment	PC4. Identify personal safety equipment required for specific locations on-site
	PC5. identify expiry dates and wear & tear issues of specified equipment PC6. Identify protective equipment required for using tools, equipment and
	testing devices needed to carry out the work
	PC7. follow safe and accepted practices for personal protection
Identify safety	To be competent, the user/individual on the job must be able to:
hazards	PC8. identify electrical hazards
	PC9. identify personal safety hazards or work site hazards and report to the
	supervisor for further action
Follow instructions	To be competent, the user/individual on the job must be able to:
for working at height	PC10.install fall protection and perimeter protection equipment for working at
	height as per the directions of the supervisor
	PC11. Follow standard operating procedure for moving tools and equipment to
	work area and minimize potential hazards associated with tools at height
	PC12. Follow standard operating procedure for placing tools and materials to
	eliminate/minimize the risk of items being knocked down
	PC13. clear the work area after completion







SGJ/N0148 Maintain personal health & safety at workplace

Kn	owledge and Unders	standing (K)						
	Organizational	The user/individual on the job needs to know and understand:						
	Context	KA1. company's customer support policy						
	(Knowledge of	KA2. company's documentation policy						
	the organization	KA3. obtain authorization from specified field safety officer and supervisor						
	and its	KA4. company's reporting structure						
	processes)							
B.	Technical	The user/individual on the job needs to know and understand:						
	Knowledge	KB1. relevant personal protective equipment's required						
		KB2. occupational health and safety (OHS) standards relevant for the workplace						
		KB3. risk identification and mitigation procedure for safe completion of work						
		KB4. Know-how of tools & tackles required to carry out the work						
	ils (S)							
A.	Core Skills/	Writing Skills						
	Generic Skills	The user/ individual on the job needs to know and understand how to:						
		SA1. fill up documentation applicable to one's role						
		Reading Skills						
		The user/individual on the job needs to know and understand how to:						
		SA2. read vernacular/English language						
		SA3. understand the various colour codes, as per standard electrical, mechanical						
		and civil nomenclature						
		Oral Communication (Listening and Speaking skills)						
		The user/individual on the job needs to keep and understand how to:						
		SA4. express statements or information clearly so that others can hear and						
		understand						
		SA5. participate in and understand the main points of simple discussions						
		SA6. respond appropriately to any queries						
	-	SA7. communicate with peers, supervisor and sub-ordinates						
B.	Professional Skills	Decision Making						
		The user/individual on the job needs to know and understand how to:						
		SB1. follow organization rule-based decision-making process						
		Plan and Organize						
		The user/individual on the job needs to know and understand:						
		SB2. work constructively and collaboratively with others						







### SGJ/N0148 Maintain personal health & safety at workplace

#### **Customer Centricity**

The user/individual on the job needs to know and understand how to:

SB3. follow organisation code of conduct

#### **Problem Solving**

The user/individual on the job needs to know and understand how to:

SB4. choose best methods to complete assigned tasks

SB5. approach relevant authority when required

### **Analytical Thinking**

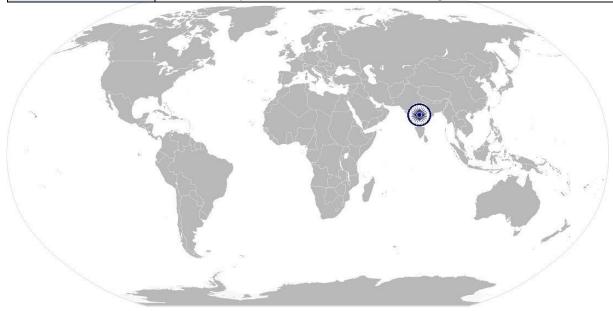
The user/individual on the job needs to know and understand how to:

SB6. apply domain knowledge, observations and data to select course of action to perform tasks

### **Critical Thinking**

The user/individual on the job needs to know and understand how to:

- SB7. critically evaluate information obtained from customers, supervisor and coworkers to perform day to day activities
- SB8. ask questions for better understanding





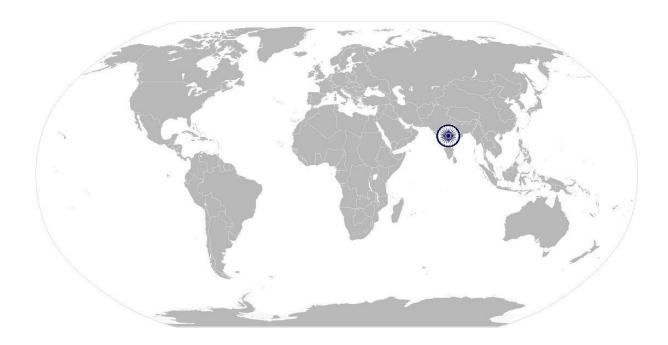




### Maintain personal health & safety at workplace

# **NOS Version Control**

NOS Code	SGJ/ N0148			
Credits (NSQF)	TBD	Version number	1.0	
Industry	Green Jobs	Drafted on	14/03/2017	
Industry Sub-sector	Renewable Energy	Last reviewed on	14/06/2017	
Occupation	Health and Safety	Next review date	01/10/2020	





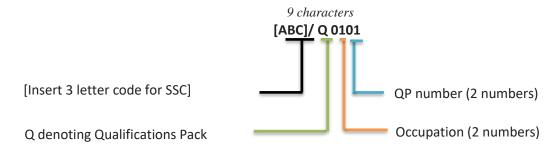




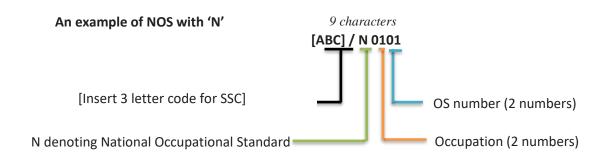
### **Annexure**

### **Nomenclature for QP and NOS**

### **Qualifications Pack**



### **Occupational Standard**









The following acronyms/codes have been used in the nomenclature above:

	Sub-sector	Range of Occupation numbers			
Renewable	Solar Photovoltaic	01-05			
Energy (01-35)	Solar Thermal	06-10			
(01-33)	Wind	11-15			
	Hydro	16-20			
	Biomass	21-25			
	Geothermal	26-30			
	All Renewables (Cross-cutting/ Enabling Activities)	31-35			
Green	Alternative Fuel Transportation	36-40			
Transportation	Bio-fuels and Farming	40-45			
(36 - 40)	Other Green Transportation	46-50			
Green	Green Buildings	51-55			
Construction (51- 60)	Energy Efficiency	56-60			
Waste Management (61- 65)	Waste Management	61-65			
Water Management ( 66-70)	Water and Wastewater Management	66-70			
Co- Generation (71 - 75)	Co-generation	71-75			
Other Green	Carbon Sinks	76-80			
Jobs (76- 99)	Environmental Compliance and Sustainability Planning	81-85			
	Other Green Jobs	85-99			

Sequence	Description	Example		
Three letters	Industry name	SGJ		
Slash	/	/		
Next letter	Whether QP or NOS	Q or N		
Next two numbers	Occupation code	01		
Next two numbers	OS number	01		







#### **CRITERIA FOR ASSESSMENT OF TRAINEES**

Job Role Solar PV Project Helper

**Qualification Pack** SGJ/Q0111

**Sector Skill Council Green Jobs** 

### **Guidelines for Assessment**

- 1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each 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 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 this criterion.
- 6. To pass the Qualification Pack, every trainee should score a minimum of 50% of aggregate marks to successfully clear the assessment.
- 7. In case of *unsuccessful completion*, the trainee may seek reassessment on the Qualification Pack.

		Marks allocation				
Total Marks: 250 Assessment Outcomes	Assessn	nent Criteria for outcomes	Total Marks	Out of	Theory	Skills Practical
SGJ/N0130 Assist in installation and	PC1.	identify components of solar PV power plants		10	3	7
maintenance of solar PV power plant	PC2.	identify the tools used at a solar PV power plant site		10	3	7
	PC3.	assist in survey of the site for installation of solar power plant		8	3	5
	PC4.	make foundations for module mounting structures and other components under supervision		10	3	7
	PC5.	assist in measurement and recording of readings from various equipment		5	2	3
	schedule and standard pro and remove any shadowing o PC7. perform visual inspection fo identification as per schedule	carry out cleaning of modules as per schedule and standard procedure and remove any shadowing objects	100	10	3	7
		perform visual inspection for fault identification as per schedule		6	2	4
		assist in replacing defective modules from the PV module arrays		10	2	8
	PC9.	assist in repair and replacement of broken foundations for modules, combiner boxes, inverters and transformers, etc.		10	2	8
	PC10.	clean the work area after completing the installation and maintenance activity		10	1	9







S <i>GJ/Q0111</i>	Quo	alifications Pack for "Solar PV Projec	t Helper"			
	PC11.	remove all the tools, consumables used from the work area and dispose of any waste materials in accordance with safe working practices		5	2	3
	PC12.	fill in the job completion		6	2	4
			TOTAL	100	28	72
SGJ/N0131 Assist in installation and maintenance of off grid	PC1.	assist in survey of the site for installation of solar modules and pump		8	3	5
solar systems	PC2.	visually inspect for physical defects of equipment's		8	2	6
	PC3.	mount and fix the structures and modules on the foundations under supervision		8	2	6
	PC4.	assist in laying of cables and pipes under supervision		6	2	4
	PC5.	assist in installation and regular maintenance of solar PV pumps		10	3	7
	PC6.	clean the work area after installation		6	2	4
	PC7.	make proper foundation under supervision	100	8	3	5
	PC8.	assist in erection of the pole under supervision		6	2	4
	PC9.	assist in installation and regular maintenance of street lights		10	3	7
	PC10.	clean the work area after installation		6	2	4
	PC11.	visually inspect all components including batteries, solar modules, cables of small solar systems		8	3	5
	PC12.	assist in installation and regular maintenance of solar modules, lights, fan, etc.		10	3	7
	PC13.	clean the work area after completing the installation		6	2	4
			TOTAL	100	32	68
SGJ/N0148 Maintain personal health & safety	PC1.	identify requirements for safe work area		5	2	3
at workplace	PC2.	identify contact person when workplace safety policies are violated and provide information about incident/violation		2	1	1
	PC3.	identify location of first aid materials and administer first aid related to the work being carried out	50	7	3	4
	PC4.	Identify personal safety equipment required for specific locations on-site		4	2	2







S <u>GJ/Q0111</u>	Qualifications Pack for "Solar PV Proj	ect Heiper			
	PC5. identify expiry dates and wear 8 tear issues of specified equipment		2	1	1
	PC6. Identify protective equipment required for using tools equipment and testing device needed to carry out the work	,	5	2	3
	PC7. follow safe and accepted practices for personal protection		2	1	1
	PC8. identify electrical hazards		3	1	2
	PC9. identify personal safety hazard or work site hazards and report to the supervisor for furthe action	t	5	2	3
	PC10. install fall protection and perimeter protection equipment for working at height as per the directions of the supervisor	t	4	2	2
	PC11. Follow standard operating procedure for moving tools and equipment to work area and minimize potential hazard associated with tools at height	d l	4	2	2
	PC12. Follow standard operating procedure for placing tools and materials to eliminate/minimize the risk of items being knocked down	d = d	4	2	2
	PC13. clear the work area afte completion		3	1	2
		TOTAL	50	22	28

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