

# SCGJ'S QUALIFICATION PACKS

**Green Jobs**  
propelling  
**Green Growth**

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RENEWABLE ENERGY

ENVIRONMENT, FOREST AND CLIMATE CHANGE

SUSTAINABLE DEVELOPMENT

**SCGJ'S  
QUALIFICATION  
PACKS**



## TABLE OF CONTENT

<b>ABOUT SKILL COUNCIL FOR GREEN JOBS</b> .....	01
<b>SOLAR PHOTOVOLTAIC</b>	
1. Solar PV Installer (Suryamitra) SGJ/Q0101.....	02
2. Solar PV Installer – Electrical SGJ/Q0102.....	02
3. Solar PV Solar PV Installer – Civil SGJ/Q0103.....	03
4. Rooftop Solar Photovoltaic Entrepreneur SGJ/Q0104.....	03
5. Solar Proposal Evaluation Specialist SGJ/Q0105.....	04
6. Rooftop Solar Grid Engineer SGJ/Q0106.....	04
7. Solar PV Business Development Executive SGJ/Q0107 .....	05
8. Solar PV Site Surveyor SGJ/Q0108 .....	05
9. Solar PV Structural Design Engineer SGJ/Q0109 .....	06
10. Solar PV Designer SGJ/Q0110.....	06
11. Solar PV Project Helper SGJ/Q0111.....	07
12. Solar PV Engineer (Option: Solar Water Pumping Engineer) SGJ/Q0112.....	07
13. Solar Site In-charge SGJ/Q0113.....	08
14. Solar PV Project Manager(E&C) SGJ/Q0114.....	08
15. Solar PV Maintenance Technician - Electrical (Ground Mount) SGJ/Q0115.....	09
16. Solar PV Maintenance Technician - Civil (Ground Mount) SGJ/Q0116.....	09
17. Solar PV O&M Engineer SGJ/Q0117.....	10
18. Solar Off Grid Entrepreneur SGJ/Q0118.....	10
19. Solar PV Manufacturing Technician SGJ/Q0119.....	11
20. Solar Lighting Technician (Options: Home Lighting System/ Street Lights) SGJ/Q0201.....	11
<b>SOLAR THERMAL</b>	
21. Solar Domestic Water Heater Technician (Option: Manufacturing Technician) SGJ/Q0601.....	12
22. Solar Thermal Plant Installation & Maintenance Technician SGJ/Q0602.....	13
23. Solar Thermal Engineer – Industrial Process Heat (Option: Consultant) SGJ/Q0603.....	13
<b>CLEAN COOKING</b>	
24. Improved Cookstove Installer SGJ/Q2101.....	14
25. Portable Improved Cookstove Assembler SGJ/Q2102.....	14
26. Portable Improved Cookstove Sales and Maintenance Executive SGJ/Q2104.....	15
27. Portable Improved Cookstove Distributor SGJ/Q2105.....	15
<b>WASTE MANAGEMENT</b>	
28. Recyclable Waste Collector & Segregator SGJ/Q6101.....	16
29. Safai Karamchari (Option: Wet Cleaning/ Mechanized Cleaning) SGJ/Q6102.....	17
30. Waste Picker SGJ/Q6103.....	17
31. Animal Waste Manure Aggregator (Option: Biogas Plant Operator / Compost Plant Operator ) SGJ/Q6302...	18
32. Agri-residue Aggregator SGJ/Q6201.....	18
33. Biomass Depot Operator SGJ/Q6207.....	19
34. Manager- Waste Management Elective: Biomass Depot or Compost Yard or Dry Waste Center SGJ/Q6501...	19



**WASTE WATER TREATMENT**

35. Wastewater Treatment Plant Technician SGJ/Q6601.....	20
36. Wastewater Treatment Plant Helper SGJ/Q6602.....	20
37. Septic Tank Technician SGJ/Q6402.....	21
38. Desludging Operator SGJ/Q6403.....	21
39. Faecal Sludge Treatment Plant O&M Technician SGJ/Q6404.....	22

**WIND ENERGY**

40. Assistant Planning Engineer – Wind Power Plant SGJ/Q1201.....	23
41. Site Surveyor-Wind Power Plant SGJ/Q1202.....	24
42. Construction Technician (Mechanical) - Wind Power Plant SGJ/Q1401.....	24
43. Construction Technician (Civil) - Wind Power Plant SGJ/Q1402.....	25
44. Construction Technician (Electrical) - Wind Power Plant SGJ/Q1403.....	25
45. CMS Engineer- Wind Power Plant SGJ/Q1501.....	26
46. O&M Mechanical Technician – Wind Power Plant SGJ/Q1502.....	26
47. O&M Electrical & Instrumentation Technician – Wind Power Plant SGJ/Q1503.....	27





## ABOUT SKILL COUNCIL FOR GREEN JOBS

### OUR VISION

To capture the skilling needs for both service users and manufacturers/ service providers within the sector and implement a roadmap for a nation-wide, industry led collaborative skills development initiatives that will enable meet India's potential for "Green Businesses".

### ORGANIZATION BRIEF

Established on 1<sup>st</sup> October, 2015, Skill Council for Green Jobs is an autonomous body and registered society launched by the Ministry of Skill Development and Entrepreneurship to supplement the Skill India Mission for the purpose of developing competencies/skills in following domains:



Renewable Energy



Environment, Forest And Climate Change

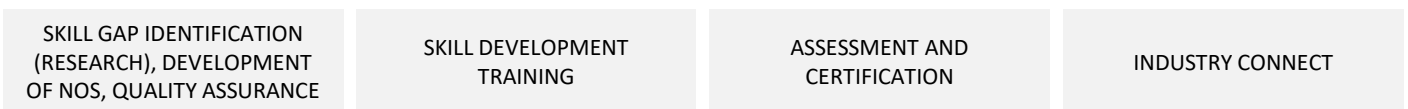


Sustainable Development

SCGJ an ISO 9001:2015 Certified emerging Skill Council is an industry led and industry driven organization which is promoted by the Ministry of New and Renewable Energy and Confederation of Indian Industry (CII).

Apart from undertaking skill gap analysis, developing National Occupational Standards (job roles), training and certifying skilled man power in its domain; SCGJ is focusing on Recognition of Prior Learning (RPL) in linked Industry & Entrepreneurship development specifically supporting "Rural Entrepreneurship" growth for sustainable development. SCGJ scope covers the entire gamut of "Green Business".

### MANDATE OF SCGJ: KEY ACTIVITIES



### PRESENT INDUSTRY CONNECT



Government of India  
MINISTRY OF NEW  
AND RENEWABLE ENERGY



Government of India  
MINISTRY OF POWER



Government of India  
MINISTRY OF SKILL DEVELOPMENT  
AND ENTREPRENEURSHIP



Industry on  
Governing Council



Industry on  
Advisory Board



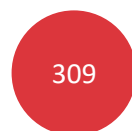
Industry as  
Members



Industry as  
Associates



Industry as  
Validators



Total  
Industry Connect



# SOLAR PHOTOVOLTAIC

## 1. Solar PV Installer (Suryamitra) SGJ/Q0101

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	300	After the training, the candidate would suitable to work as Solar PV Installer. S/He has the competence for mechanical, civil and electrical installation of rooftop Solar PV Power Plants as well as maintaining them properly ensuring proper customer support.
Trainee Qualification	10th pass + ITI/ Diploma (Electrical, Electronics, Civil, Mechanical, Fitter, Instrumentation, Welder)	S/He will be trained on Solar PV and will be able to do: <ul style="list-style-type: none"> <li>• Site Survey for installation of Solar PV System</li> <li>• Assess the customer’s Solar PV requirement</li> <li>• Procure Solar PV system components</li> <li>• Install Civil and Mechanical parts of Solar PV System</li> <li>• Install Electrical components of Solar PV System</li> <li>• Test and Commission Solar PV System</li> <li>• Maintain Solar Photovoltaic System</li> <li>• Maintain Personal Health &amp; Safety at project site</li> <li>• Customer orientation for Solar PV System</li> </ul>
Entry Age (years)	Minimum age: 18	
Trainer Qualification & Experience	ITI/Diploma + 3 years of experience or B.Tech + 2 years of experience	S/He will be able to check, configure, install, inspect, test, and commission different components of photovoltaic systems, that meet the performance and reliability needs of customers by incorporating quality craftsmanship and complying with all applicable codes, standards, and safety requirements.

## 2. Solar PV Installer – Electrical SGJ/Q0102

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	200	After the training, the candidate would suitable to work as Solar PV Installer- Electrical. S/He specializes in electrical installations and commissioning of Solar Photovoltaic Systems.
Trainee Qualification	10th pass + ITI / Diploma (Electrical, Electronics)	S/He will be trained on Solar PV and will be able to do: <ul style="list-style-type: none"> <li>• Site Survey for installation of Solar PV System</li> <li>• Install Electrical components of Solar PV System</li> <li>• Test and Commission Solar PV System</li> <li>• Maintain Personal Health &amp; Safety at project site</li> </ul>
Entry Age (years)	Minimum age: 18	
Trainer Qualification & Experience	ITI / Diploma (Electrical, Electronics) + 3 years of experience or B.Tech (Civil / Electrical / Electronics /Electrical and Electronics Eng.) / MSc Physics + 2 years of experience	S/He will install, test, and commission different electrical components of photovoltaic systems, that meet the performance and reliability needs of customers by incorporating quality craftsmanship and complying with all applicable codes, standards and safety requirements.

### 3. Solar PV Solar PV Installer – Civil SGJ/Q0103

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	180	<p>After the training, the candidate would suitable to work as Solar PV Installer – Civil. S/He specializes in civil and mechanical installation of Solar Photovoltaic Systems. S/He will be trained on Solar PV and will be able to do:</p> <ul style="list-style-type: none"> <li>• Site Survey for installation of Solar PV System</li> <li>• Install Civil and Mechanical parts of Solar PV System</li> <li>• Maintain Personal Health &amp; Safety at project sit</li> </ul> <p>S/He will install different civil and mechanical components of photovoltaic systems that meet the performance and reliability needs of customers by incorporating quality craftsmanship and complying with all applicable codes, standards, and safety requirements.</p>
Trainee Qualification	10th pass + ITI / Diploma (Electrical, Electronics, Civil, Mechanical, Fitter, Instrumentation, Welder, Mason)	
Entry Age (years)	Minimum age: 18	
Trainer Qualification & Experience	ITI / Diploma + 3 years of experience or B.Tech (Civil, Mechanical, Electrical, Instrumentation, Electronics, Electrical and Electronics Eng.) + 2 years of experience	

### 4. Rooftop Solar Photovoltaic Entrepreneur SGJ/Q0104

QUALIFICATION PACK DETAILS		
NSQF Level	6	Description
Course Duration/ Training Hours	80	<p>After the training, the candidate would suitable to work as Rooftop Solar PV Entrepreneur. S/He is an individual having the ability to venture into Solar Rooftop market to lead an enterprise, prepare the feasibility study report and is responsible for the managing the complete Solar rooftop PV project lifecycle.</p> <p>S/He will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>• Carry out market research and prepare a cost estimate for a Rooftop Solar Photovoltaic plant</li> <li>• Prepare site feasibility report</li> <li>• Manage Solar PV project for its entire lifecycle</li> <li>• Entrepreneurship skills</li> <li>• Maintain Personal Health &amp; Safety at project site</li> </ul> <p>S/He will be able to venture into Solar Rooftop market to lead an enterprise as S/He would have understanding of solar business models and the technical knowledge of rooftop solar PV plants along with the components available in the local market. S/He will prepare feasibility study report and basic energy generation forecasting using simulation software. S/He will be responsible for the managing the complete Solar PV rooftop project for its life.</p>
Practical Project Work Hours	40	
Trainee Qualification	B.E./B.Tech. /Any Graduate with Science background, preferred	
Entry Age (years)	Minimum age: 21	
Trainer Qualification & Experience	B.E/B.Tech/MSc Physics + 5 Years of relevant industry experience or B.Tech. + MBA / M.Tech. + 3 Years relevant industry experience	

## 5. Solar Proposal Evaluation Specialist SGJ/Q0105

QUALIFICATION PACK DETAILS		
<b>NSQF Level</b>	7	<b>Description</b>
<b>Course Duration/ Training Hours</b>	80	After the training, the candidate would suitable to work as Solar Proposal Evaluation Specialist. S/He has competency to review feasibility of the site for installation, assess the techno - commercial feasibility and financial viability of setting up a Solar PV Power Plant.
<b>Trainee Qualification</b>	B.E./B.Tech. /BBA/B.Com. /B.Sc./ C.A. + 2 year of experience in a financial institution/bank /project management/ project evaluation No experience required for MBA / CA	S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Check site feasibility of Solar PV Power Plant</li> <li>• Assess the technical feasibility of Solar PV Power Plant</li> <li>• Determine financial viability of the Solar PV Power Plant</li> <li>• Optional: Entrepreneurship Skills</li> </ul>
<b>Entry Age (years)</b>	Minimum age: 23	S/He will be able to review feasibility report of the site for installation, assess the techno -commercial feasibility and financial viability of setting up a Solar PV Power Plant. S/He will be able to providing techno - commercial advice, preparing lending or funding documents and write or review Solar PV project reports.

## 6. Rooftop Solar Grid Engineer SGJ/Q0106

QUALIFICATION PACK DETAILS		
<b>NSQF Level</b>	5	<b>Description</b>
<b>Course Duration/ Training Hours</b>	80	After the training, the candidate would suitable to work as Rooftop Solar Grid Engineer. S/He has competency of pre-commissioning inspection, interconnection and post commissioning testing of grid connected Solar PV Roof Top Power Plants. S/He is able to monitor safe and appropriate performance of the grid connectivity.
<b>Trainee Qualification</b>	Diploma (Electrical, EEE)	S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Pre-Commissioning Inspection of the Grid Connected Rooftop Solar PV Power Plant</li> <li>• Post Commissioning Testing of the Grid Connected Rooftop Solar PV Power Plant</li> <li>• Maintain Personal Health &amp; safety at project site</li> </ul>
<b>Entry Age (years)</b>	Minimum age: 20	
<b>Trainer Qualification &amp; Experience</b>	M.Tech (Electrical, EEE, Renewable Energy) + 3 years industry experience or B.E./B.Tech (Civil, Electrical, Mechanical, Energy) + 5 years industry experience or Diploma/Graduate (Electrical, EEE) + 6 Years i ndustry experience	S/He will be able to checks, audits, inspects and tests different components of the grid connected Solar PV Power Plant in compliance with all relevant codes, standards, and safety requirements. S/He will be able to interconnect the solar plant with grid and perform post commissioning tests.



## 7. Solar PV Business Development Executive SGJ/Q0107

QUALIFICATION PACK DETAILS		
<b>NSQF Level</b>	5	<b>Description</b>
<b>Course Duration/ Training Hours</b>	140	After the training, the candidate would suitable to work as Solar PV Business Development Executive. S/He is specialized in developing solar PV business for a company.
<b>Trainee Qualification</b>	B.B.A./B.Com./B.Tech.	S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Develop and mobilize rooftop solar PV business</li> <li>• Develop of off grid solar PV business</li> <li>• Develop of ground mount solar PV business</li> <li>• Work effectively with others</li> </ul>
<b>Entry Age (years)</b>	Minimum age: 21	S/He will be able to tell to the client advantages of using solar power devices and systems to develop and generate business for the organization. S/He would have understanding of the rooftop SPV market, ground mount SPV market and decentralized SPV system market and will be able to suggest right kind of solar solution to meet the specific needs of the clients. S/He would have fair understanding of the solar PV technology, its applications and economics. S/He would keep track of central and state solar policies/programs to inform the client and let him avail the benefits of same.
<b>Trainer Qualification &amp; Experience</b>	B.B.A./B.Com./B.Tech. + 2 years of Business Development experience in solar PV sector	

## 8. Solar PV Site Surveyor SGJ/Q0108

QUALIFICATION PACK DETAILS		
<b>NSQF Level</b>	6	<b>Description</b>
<b>Course Duration/ Training Hours</b>	120	After the training, the candidate would suitable to work as Solar PV Site Surveyor. S/He is specialized in survey of the site for setting up a solar power plant.
<b>Trainee Qualification</b>	Diploma/B.E. /B.Tech preferably in Civil Engineering. Experience: 3 Years	S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Survey site for installation of ground mount solar PV power plant</li> <li>• Survey site for Installation of rooftop solar PV power plant</li> <li>• Maintain personal health &amp; safety at project site</li> <li>• Work effectively with others</li> </ul>
<b>Entry Age (years)</b>	Minimum age: 25	S/He would be able to survey the proposed site, provide complete land map with elevations, arrange for soil testing & test reports, provides details of approach to site, water table at site, quality of ground water, availability of water for module cleaning at site, availability of grid, location nearest substation where the solar power is to be delivered etc. For rooftop solar power plants, s/he would be able to survey rooftop for availability of shadow free open area, roof load bearing capacity, drawings of beams and columns, load of the building and the voltage at which it is connected to grid etc.
<b>Trainer Qualification &amp; Experience</b>	Diploma/ B.E. / B. Tech. preferably in Civil Engineering + 3 years of experience in doing site surveys for Solar PV power plants	

### 9. Solar PV Structural Design Engineer SGJ/Q0109

QUALIFICATION PACK DETAILS		
NSQF Level	5	Description
Course Duration/ Training Hours	200	After the training, the candidate would suitable to work as Solar PV Structural Design Engineer. S/He is specialized in civil and structural design of a rooftop or ground mount solar PV power plant.  S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Prepare the civil and structural design of solar PV power plant</li> <li>• Maintain personal health &amp; safety at solar PV project site</li> <li>• Work effectively with others</li> </ul>
Trainee Qualification	Diploma in Civil Engineering/Structural Engineering	
Entry Age (years)	Minimum age: 20	S/He designs the module mounting structures, foundations for the module mounting structures, inverters and transformers and the complete layout of the solar PV power plant including walkways between the module mounting structures civil/ structural work for the control room, and allied structural works for the rooftop or ground mount solar PV power plant.
Trainer Qualification & Experience	Diploma in Civil Engineering/Structural Engineering + 5 years of relevant work experience	

### 10. Solar PV Designer SGJ/Q0110

QUALIFICATION PACK DETAILS		
NSQF Level	7	Description
Course Duration/ Training Hours	200	After the training, the candidate would suitable to work as Solar PV Designer. S/He is specialized in designing of solar PV power plant.  S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Review the structural design of solar PV power plant</li> <li>• Review electrical design of solar PV power plant</li> <li>• Prepare energy simulation report</li> <li>• Maintain personal health &amp; safety at solar PV project site</li> <li>• Work effectively with others</li> </ul> S/He would be able to review civil and electrical design of the Solar PV power plant & prepare the energy simulation report.
Trainee Qualification	B. Tech/ B.E. (Solar/ Electrical, Electronics, Civil, Mechanical/ Energy Systems) + 3 years of Solar PV experience or M.Tech (Solar/ Renewables/ Energy Studies) with no experience	
Entry Age (years)	Minimum age: 25	
Trainer Qualification & Experience	B. Tech/ B.E. (Solar/ Electrical, Electronics, Civil, Mechanical/ Energy Systems) + 5 Years Solar PV design experience M. Tech (Solar/ Renewables/ Energy Studies) + 2 Years Solar PV design experience	

### 11. Solar PV Project Helper SGJ/Q0111

QUALIFICATION PACK DETAILS		
<b>NSQF Level</b>	2	<b>Description</b>
<b>Course Duration/ Training Hours</b>	200	After the training, the candidate would be suitable to work as Solar PV Project Helper. S/He would be trained to assist in various activities relating to SPV installations both ground mounted and roof top.
<b>Trainee Qualification</b>	5th pass preferably	<p>S/He will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>• Assist in installation and maintenance of solar PV power plant</li> <li>• Assist in installation and maintenance of off grid solar systems</li> <li>• Maintain personal health &amp; safety at workplace</li> </ul> <p>S/He would be able to assist in site survey, erection and commissioning activities and maintenance activities for ground mounted solar PV power plants as well as roof top and also assist in installation of off grid solar systems.</p>
<b>Entry Age (years)</b>	Minimum age: 18	
<b>Trainer Qualification &amp; Experience</b>	ITI / Diploma in technical education + 2 years of hands-on working experience of Installation and Maintenance of Solar PV power plants	

### 12. Solar PV Engineer (Option: Solar Water Pumping Engineer) SGJ/Q0112

QUALIFICATION PACK DETAILS		
<b>NSQF Level</b>	5	<b>Description</b>
<b>Course Duration/ Training Hours</b>	300 + 120 (Optional)	After the training, the candidate would become Solar PV Engineer. S/He would be trained to design, installation and commission solar PV power plant, its quality assurance and HSE issues.
<b>Trainee Qualification</b>	Diploma (Electrical/Electronics/Civil/ Mechanical) or Pre-final engineering and technology candidate with 3 years of formal engineering education	<p>S/He will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>• Prepare site feasibility study report</li> <li>• Design of solar PV power plant</li> <li>• Installation and commissioning of solar PV power plant</li> <li>• Quality Assurance of solar PV power plant &amp; components</li> <li>• Maintain personal health &amp; safety at project site</li> <li>• Work effectively with others</li> </ul>
<b>Entry Age (years)</b>		S/He would be able to take responsibility of design, installation and commissioning of solar power plant at site, its quality QA and HSE issues.
<b>Trainer Qualification &amp; Experience</b>	Engineering Graduate + 3 years of experience in designing and installation of Solar PV Power plant or Diploma + 5 years of experience in designing and installation of Solar PV Power plant	Option: Solar Water Pumping Engineer: As part of optional learning, he would also be able to design, install and commission solar water pumping systems.

### 13. Solar Site In-charge SGJ/Q0113

QUALIFICATION PACK DETAILS		
NSQF Level	6	Description
Course Duration/ Training Hours	200	After the training, the candidate would be suitable to work as Solar PV power plant Site In-charge. S/He will be trained to be responsible for all the activities at site relating to Installation and commissioning of solar PV power plant.  S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Manage installation and commissioning of solar PV power plant at site</li> <li>• Maintain health &amp; safety at project site</li> <li>• Work effectively with others</li> </ul>
Trainee Qualification	B.E./B.Tech. + 3 years' experience in solar PV power plant installation and commissioning or M.Tech. / MBA + 1 year of experience in solar PV power plant installation and commissioning	
Entry Age (years)	Minimum age: 25	S/He would receive components of the solar PV power plant, check them for specifications and quality and get the solar PV power plant installed as per the design. S/He would also get the substation and grid interface constructed incorporating grid code and regulatory provisions. S/He will be able to commission DC and AC parts of solar power plant and undertake grid connection, data acquisition and monitoring equipment installed.
Trainer Qualification & Experience	Graduate + 3 years of experience in managing installation & commissioning of solar PV power plants	

### 14. Solar PV Project Manager(E&C) SGJ/Q0114

QUALIFICATION PACK DETAILS		
NSQF Level	7	Description
Course Duration/ Training Hours	80	After the training, the candidate would be suitable to work as Solar PV Project Manager (E&C) with competency to manage erection and commissioning of one/ multiple solar PV power plants at one site or different sites.  S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Manage installation of solar PV power plant</li> <li>• Maintain health &amp; safety at project site</li> <li>• Work effectively with others</li> </ul> S/He with his team of site in-charge and commercial manager, receives different components of the solar PV power plant (modules, inverter, transformers etc.) procured as per the design, checks the components for specifications and quality, installs the solar PV power plant as per the design, constructs the substation and grid interface incorporating grid code and regulatory provisions incorporated in the design.
Trainee Qualification	B.E. / B.Tech. + 6 years of experience in renewable energy/power sector utilities/consulting firms/ PV power plant installation and commissioning or M.Sc. / M.Tech. / MBA + 3 years of experience in renewable energy/power utilities/consulting firms/ PV power plant installation and commissioning.	
Entry Age (years)	Minimum Age: 30	
Trainer Qualification & Experience	B.E./ B.Tech. in Engineering and Technology + 7 years of experience in managing installation & commissioning of Solar PV projects or M.Sc. / M.Tech. / MBA + 5 years of experience in managing installation & commissioning of Solar PV projects	

### 15. Solar PV Maintenance Technician - Electrical (Ground Mount) SGJ/Q0115

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	200	After the training, the candidate would be suitable to work as Solar PV Maintenance Technician for electrical components in a ground mount power plant.
Trainee Qualification	ITI - Electrical and Electronics	<p>S/He will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>Carry out electrical maintenance of the ground mount solar PV power plant</li> <li>Maintain personal health &amp; safety at solar PV power plant</li> <li>Work effectively with others</li> </ul>
Entry Age (years)	Minimum age: 18	S/He would be able to periodically check and maintain all the electrical components of the solar PV power plant for proper electrical connectivity, incorporating quality craftsmanship and complying with all applicable codes, standards, and safety requirements.
Trainer Qualification & Experience	Graduate + 2 years of experience in Operation and Maintenance of Solar PV power plant	

### 16. Solar PV Maintenance Technician - Civil (Ground Mount) SGJ/Q0116

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	200	After the training, the candidate would be suitable to work as Solar PV Maintenance Technician for civil components in a ground mount power plant.
Trainee Qualification	10th pass preferred	<p>S/He will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>Carry out civil/ mechanical maintenance of solar PV power plant</li> <li>Maintain personal health &amp; safety at solar PV power plant</li> <li>Work effectively with others</li> </ul>
Entry Age (years)	Minimum Age:18	S/He would be able to periodically check all the civil / mechanical parts of the solar power plant for its stability and long life incorporating quality craftsmanship and complying with all applicable codes, standards, and safety requirements.
Trainer Qualification & Experience	Graduate + 2 years of experience in Operation and Maintenance of Solar PV power plant	

## 17. Solar PV O&M Engineer SGJ/Q0117

QUALIFICATION PACK DETAILS		
<b>NSQF Level</b>	5	<b>Description</b>
<b>Course Duration/ Training Hours</b>	200	After the training, the candidate would be suitable to work as Solar PV O&M Engineer. S/He would be able to monitor operation of the Solar PV power plant using SCADA or any other monitoring system.
<b>Trainee Qualification</b>	Diploma (Electrical/Electronics/ Civil/ Mechanical) or Pre-final engineering and technology candidate with 3 years of formal engineering education	S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Operate Solar PV power plant</li> <li>• Carry out electrical maintenance of Solar PV power plant</li> <li>• Carry out civil / mechanical maintenance of Solar PV power plant</li> <li>• Maintain personal health &amp; safety at project site</li> <li>• Work effectively with others</li> </ul>
<b>Entry Age (years)</b>	Minimum age: 20	
<b>Trainer Qualification &amp; Experience</b>	Certified Solar PV Engineer + 1 year experience or Certified Solar PV O&M Engineer + 1 year experience or Graduate + 2 years of experience in operating & maintaining of Solar PV power plants	S/He would be able to keep watch on voltages at various levels, operational efficiencies of individual components, generation of power; compute performance ratio and compare with simulated values etc. S/He is trained to identify electrical faults from SCADA/any monitoring system and get them rectified in the plant down to modules string level. S/He is also trained to maintain civil and mechanical works of the plant through the maintenance team.

## 18. Solar Off Grid Entrepreneur SGJ/Q0118

QUALIFICATION PACK DETAILS		
<b>NSQF Level</b>	5	<b>Description</b>
<b>Course Duration/ Training Hours</b>	200	After the training, the candidate would be suitable to work as Solar Off Grid Entrepreneur, who does business of solar off grid systems.
<b>Trainee Qualification</b>	12th pass preferably	S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Develop solar lighting solutions business</li> <li>• Develop solar PV pumping business</li> <li>• Develop solar PV off – grid power plant business</li> <li>• Entrepreneurship skills</li> <li>• Maintain personal health and safety at project site</li> <li>• Work effectively with others</li> </ul>
<b>Entry Age (years)</b>	Minimum Age:18	
<b>Trainer Qualification &amp; Experience</b>	Graduate + 2 years of working experience in Solar off-grid sector (education qualification can be relaxed in case of extraordinary relevant field experience)	S/he would be able to identify potential market and the client needs / requirements to propose the right kind of technically and economically feasible Off Grid Solar solutions. S/he will be well acquainted with Government policies and different suppliers of Off Grid solar solutions like home lighting, lanterns, street lighting, small solar systems and pumps. S/he will be able to select right product from the suppliers and sells them to the customer. S/he would have knowledge of standard installation and maintenance practices for different kinds of Off Grid solar products.

### 19. Solar PV Manufacturing Technician SGJ/Q0119

QUALIFICATION PACK DETAILS		
<b>NSQF Level</b>	4	<b>Description</b>
<b>Course Duration/ Training Hours</b>	200	After the training, the candidate would be suitable to work as Solar PV Manufacturing Technician. S/He would learn various processes involved in manufacturing of Solar PV Modules.
<b>Trainee Qualification</b>	10th pass preferably	<p>S/He will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>• Carry out the manufacturing of Solar PV Modules</li> <li>• Maintain personal health &amp; safety in a manufacturing facility</li> <li>• Work effectively with others</li> </ul> <p>S/He would be able to clean and check front glass cover for the PV module; monitor the process of soldering solar cells to the strings to make interconnect, lamination of modules, framing of solar PV module, module testing and packaging for transit.</p>
<b>Entry Age (years)</b>	Minimum age: 18	
<b>Trainer Qualification &amp; Experience</b>	Graduate + 2 years of work experience in a solar PV module manufacturing plant (education qualification can be relaxed in case of extraordinary relevant field experience)	

### 20. Solar Lighting Technician (Options: Home Lighting System/ Street Lights) SGJ/Q0201

QUALIFICATION PACK DETAILS		
<b>NSQF Level</b>	4	<b>Description</b>
<b>Course Duration/ Training Hours</b>	160+ 40/40 (Optional)	After the training, the candidate would be suitable to work as Solar Lighting Technician. S/He would assemble, test and repair different types of solar photovoltaic (SPV) lamps adhering to basic electrical standards.
<b>Trainee Qualification</b>	8th pass preferably	<p>S/He will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>• Assembly of different types of solar lamps</li> <li>• Repair of solar lamps</li> <li>• Maintain personal health &amp; safety in a manufacturing facility</li> <li>• Maintain Personal Health and safety at project site</li> </ul> <p>Option1: Home lighting system Assembly and Repair of solar home lighting systems.</p> <p>Option2: Street light Assembly and Repair of solar street lights.</p>
<b>Entry Age (years)</b>	Minimum Age:18	
<b>Trainer Qualification &amp; Experience</b>	10th pass + ITI or Diploma in technical education + 1 year of manufacturing solar lighting device or 2 years of experience in O&M of solar lighting devices	



## SOLAR THERMAL

### 21. Solar Domestic Water Heater Technician (Option: Manufacturing Technician) SGJ/Q0601

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	200 + 100 (Optional)	<p>After the training, the candidate would be suitable to work as Solar Domestic Water Heater Technician. S/He would specialize in the installation, commissioning and maintenance of Solar Water Heaters.</p> <p>S/He will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>• Carry out installation and commissioning of Solar Water Heater</li> <li>• Carry out maintenance of Solar Water Heater</li> <li>• Maintain personal health &amp; safety at solar thermal project site</li> <li>• Work effectively with others Option: Manufacturing Technician</li> <li>• Carry out manufacturing of Solar Water Heater Tank</li> </ul> <p>S/He would be able to install, commission and maintain solar water heater of a desired capacity designed as per the specifications of components such as collectors (PFC/ETC), storage tanks, hot and cold water pipelines, piping for hot water up to the use point, heat exchanger, circulation pumps, controls etc.</p>
Trainee Qualification	8th pass preferably	Option: Manufacturing Technician: As an additional skill, manufacturing of Solar Water Heater Tank will be offered as it complements the skills of the technician and helps her/him in lean periods of seasonal business.
Entry Age (years)	Minimum age: 18	
Trainer Qualification & Experience	10th pass + ITI or Diploma in technical education + 1 year of manufacturing solar domestic water heater or 2 years of experience in O&M of solar domestic water heater	



## 22. Solar Thermal Engineer – Industrial Process Heat (Option: Consultant) SGJ/Q0603

QUALIFICATION PACK DETAILS		
<b>NSQF Level</b>	5	<b>Description</b>
<b>Course Duration/ Training Hours</b>	360 + 40 (Optional)	After the training, the candidate would be suitable to work as Solar Thermal Engineer - Industrial Process Heat. S/He would specialize in utilization, installation and maintenance of Solar Thermal Technologies based systems for supply of process heat in industry.
<b>Trainee Qualification</b>	B.E. / B.Tech (Mechanical /Chemical/ Civil)	
<b>Entry Age (years)</b>	Minimum age: 21	
<b>Trainer Qualification &amp; Experience</b>	B.E. / B.Tech. (Mechanical /Chemical/ Civil) + 3 years of experience in designing and installing solar thermal technology solutions or Certified Solar Thermal Engineer with 2 years of relevant industry experience	
		S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Design solar thermal technology solutions for industrial process heat applications</li> <li>• Ensure installation, testing and commissioning of solar thermal systems</li> <li>• Carry out maintenance of solar thermal systems</li> <li>• Maintain personal health &amp; safety at solar thermal project site</li> <li>• Work effectively with others</li> </ul> Option: Solar Thermal Consultant Industrial Process Heat: S/He would be able to identify the requirement of heat at desired temperatures for different processes across the industry, identify the solar thermal technologies capable of delivering heat at those temperatures with relative efficiencies and cost. S/He will be able to survey available open ground/ roof area for installation of solar thermal technologies, select the technology, get system of appropriate capacity installed and integrate with the existing heat source and ensure regular maintenance of the system. S/He will be developing entrepreneurship skills for starting and managing new business.

## 23. Solar Thermal Engineer – Industrial Process Heat (Option: Consultant) SGJ/Q0603

QUALIFICATION PACK DETAILS		
<b>NSQF Level</b>	5	<b>Description</b>
<b>Course Duration/ Training Hours</b>	360 + 40 (Optional)	After the training, the candidate would be suitable to work as Solar Thermal Engineer - Industrial Process Heat. S/He would specialize in utilization, installation and maintenance of Solar Thermal Technologies based systems for supply of process heat in industry.
<b>Trainee Qualification</b>	B.E. / B.Tech (Mechanical /Chemical/ Civil)	
<b>Entry Age (years)</b>	Minimum Age: 21	
<b>Trainer Qualification &amp; Experience</b>	B.E. / B.Tech. (Mechanical /Chemical/ Civil) + 3 years of experience in designing and installing solar thermal technology solutions or Certified Solar Thermal Engineer with 2 years of relevant industry experience	
		S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Design solar thermal technology solutions for industrial process heat applications</li> <li>• Ensure installation, testing and commissioning of solar thermal systems</li> <li>• Carry out maintenance of solar thermal systems</li> <li>• Maintain personal health &amp; safety at solar thermal project site</li> <li>• Work effectively with others</li> </ul> Option: Solar Thermal Consultant Industrial Process Heat S/He would be able to identify the requirement of heat at desired temperatures for different processes across the industry, identify the solar thermal technologies capable of delivering heat at those temperatures with relative efficiencies and cost. S/He will be able to survey available open ground/ roof area for installation of solar thermal technologies, select the technology, get system of appropriate capacity installed and integrate with the existing heat source and ensure regular maintenance of the system. S/He will be developing entrepreneurship skills for starting and managing new business.



## CLEAN COOKING

### 24. Improved Cookstove Installer SGJ/Q2101

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	200	<p>After the training, the candidate would be suitable to work as Improved Cookstove Installer. S/He would specialize in construction of cookstove as per standard mould(s) and installation at appropriate site.</p> <p>S/He will be trained on:</p> <ul style="list-style-type: none"> <li>• Collection of Materials and Preparation of Appropriate Mixture</li> <li>• Construction of Improved Cookstove</li> <li>• Installation and Demonstration of Improved Cookstove</li> <li>• Health and Work Safety while Construction and Installation of Improved</li> <li>• Cookstove Entrepreneurship in Installation of Improved Cookstove</li> </ul> <p>S/He would be able to select materials, prepare appropriate mixture, construct the Cookstove as per standard mould(s), embedding non- masonry items, fire for curing, installation at the appropriate site and demonstrate functioning of the Cookstove.</p>
Trainee Qualification	5th Pass Preferably	
Entry Age (years)	Minimum age: 18	
Trainer Qualification & Experience	10th Pass + 2 years of relevant industry experience	

### 25. Portable Improved Cookstove Assembler SGJ/Q2102

QUALIFICATION PACK DETAILS		
NSQF Level	3	Description
Course Duration/ Training Hours	200	<p>After the training, the candidate would be suitable to work as Portable Improved Cookstove Assembler.</p> <p>S/He will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>• Collect Different Parts of Portable Improved Cookstove</li> <li>• Assemble and fit components of Portable Improved Cookstove</li> <li>• Work Safely while Assembling and Fitting of Component</li> </ul> <p>S/he will be able to assemble and fit various parts of the cookstove to manufacture the final product which meets performance and reliability standards. He /She will be able to incorporate quality craftsmanship and comply with all applicable standards.</p>
Trainee Qualification	10th pass	
Entry Age (years)	Minimum age: 18	
Trainer Qualification & Experience	10th Pass + 2 years of relevant industry experience	

## 26. Portable Improved Cookstove Sales and Maintenance Executive SGJ/Q2104

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	200	<p>After the training, the candidate would be suitable to work as Portable Improved Cookstove Sales and Maintenance Executive. After the training.</p> <p>S/he will be trained on:</p> <ul style="list-style-type: none"> <li>• Identification and operation of portable improved cookstove</li> <li>• Demonstration and handling of sales of portable improved cookstove</li> <li>• Health and work safety while identification and demonstration of portable improved cookstove</li> <li>• Aftersales and maintenance services of portable improved cookstoves</li> </ul> <p>Portable improved Cookstove sales and maintenance executive is responsible for marketing, selling and aftersales service of Cookstove.</p>
Trainee Qualification	8th pass	
Entry Age (years)	Minimum age: 18	
Trainer Qualification & Experience	10th Pass + 2 years of experience in sales and maintenance	

## 27. Portable Improved Cookstove Distributor SGJ/Q2105

QUALIFICATION PACK DETAILS		
NSQF Level	6	Description
Course Duration/ Training Hours	200	<p>After the training, the candidate would be suitable to work as Portable Improved Cookstove Distributor.</p> <p>S/he will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>• Ensure statutory compliances, laws, policies and procedures</li> <li>• Develop product portfolio</li> <li>• Recruit key personnel for management of operations</li> <li>• Develop demand and distribution channel</li> <li>• Manage overall operations of the business and its expansion</li> <li>• Ensure health and safety in operations</li> </ul> <p>S/He will be responsible for increasing market for portable improved cookstoves through vendor selection, warehouse development, logistics and aftersales service support. S/He would develop a portfolio of products, undertake targeted promotion, and ensure availability of the products to potential customers.</p>
Trainee Qualification	12th Pass + 2 years of experience in any distribution or similar operations	
Entry Age (years)	Minimum Age: 21	
Trainer Qualification & Experience	12th pass + 4 years of experience in distribution / channel sales or Graduate + 2 years of experience in distribution / channel sales	



## WASTE MANAGEMENT

### 28. Recyclable Waste Collector and Segregator SGJ/Q6101

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	160	<p>After the training, the candidate would be suitable to work as Recyclable Waste Collector. S/He would be responsible for collection and proper segregation of Recyclable waste.</p> <p>S/He will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>• Collect Recyclable waste</li> <li>• Segregate Recyclable waste</li> <li>• Maintain health and work safety.</li> <li>• Entrepreneurship</li> </ul>
Trainee Qualification	5th Pass Preferably	S/He would be able to properly collect, identify different types of waste and segregate at source or at collection center as per recycling / reuse / disposal requirement.
Entry Age (years)	Minimum age: 16	
Trainer Qualification & Experience	10th Pass + Minimum 2 years of relevant industry experience	

**29. Safai Karamchari (Option: Wet Cleaning/ Mechanized Cleaning) SGJ/Q6102**

QUALIFICATION PACK DETAILS		
NSQF Level	3	Description
Course Duration/ Training Hours	160 + 40/40 (Optional)	After the training, the candidate would be suitable to work as Safai Karamchari.
Trainee Qualification	5th pass	S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Clean roads, pavements and public areas</li> <li>• Clean floor(s) of buildings</li> <li>• Maintain personal health &amp; safety while cleaning</li> <li>• Work effectively with others while cleaning</li> </ul>
Entry Age (years)	Minimum age: 18	S/He would be able to sweep with a broom and / or other suitable equipment to remove dust, debris and garbage. In buildings, s/he will be able to sweep the floor, scrub the floor using appropriate cleaning solution to remove the fine dust.
Trainer Qualification & Experience	10th Pass + Minimum 2 years of experience in supervising cleaning activity	
		Option1: Wet Cleaning S/he would specialize in wet cleaning, cleaning and washing bathrooms, lavatory and removing garbage and other waste in closed dustbin.
		Option2: Mechanized Cleaning S/he will specialize in mechanized cleaning sweeps, cleaning and Removing garbage with the help of vacuum cleaner, mechanical sweeper, mechanical sweeper ride and mechanized scrubbing machine.

**30. Waste Picker SGJ/Q6103**

QUALIFICATION PACK DETAILS		
NSQF Level	3	Description
Course Duration/ Training Hours	160	After the training, the candidate would be suitable to work as Waste picker. S/He will be able to collect and recover reusable and recyclable solid waste from the source of waste generation for sale to recyclers directly or through intermediaries to earn her/his livelihood.
Trainee Qualification	5th pass preferably	S/He will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Search and collect reusable and recyclable refuse</li> <li>• Preparation and sale of reusable and recyclable refuse</li> <li>• Collection of waste from door-to-door</li> <li>• Maintain personal health and safety</li> </ul>
Entry Age (years)	Minimum Age: 18	S/He would be able to prepare the equipment used for waste collection, identify source of waste generation in local area including the streets, bins, landfills, material recovery facilities, processing and waste disposal facilities. Also identify different color codes used in waste management. As per type of refuse, s/he would suitably modify the collected waste, possibly for a better value.
Trainer Qualification & Experience	10th Pass + Minimum 2 years of relevant industry experience or working in relevant NGO/ waste management organization	

### 31. Animal Waste Manure Aggregator (Option: Biogas Plant Operator Compost Plant Operator) SGJ/Q6302

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	90	After the training, the candidate would be able to work as animal waste manure aggregator. During the training.
Trainee Qualification	5th pass	S/He will be trained to: <ul style="list-style-type: none"> <li>• Set-up drop points for collecting waste manure</li> <li>• Collect waste manure, hygienically, from designated areas</li> <li>• Appropriately store and dispatch of waste manure</li> <li>• Maintain basic health and workplace safety</li> </ul>
Entry Age (years)	Minimum age: 18	S/He will be given an option to get training to work as: Biogas Plant Operator, where in S/he will be trained on: <ul style="list-style-type: none"> <li>• Monitoring, operation and maintenance of biogas plant</li> </ul> Or Compost Plant Operator, where in S/he will be trained on: <ul style="list-style-type: none"> <li>• Monitoring, operation and maintenance of compost plant</li> </ul>
Trainer Qualification & Experience	10th Pass + Minimum 2 years of relevant experience	On completion of training and certification, S/he will be able to collect and aggregate animal manure from sources such as animal farms, gaushalas, rural households etc., aggregate supplies, as per the market requirement for various end-uses.

### 32. Agri-residue Aggregator SGJ/Q6201

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	72	After the training, the candidate would be able to work as Agri-residue Aggregator.
Trainee Qualification	5th pass	During the training, S/he will be trained to: <ul style="list-style-type: none"> <li>• Assess demand for agriculture residues and coordinate with farmers</li> <li>• Set up nodal points and procure agri-residues</li> <li>• Densify and store agri-residue bales</li> <li>• Sell and market agri-residue bales</li> <li>• Maintain basic health and workplace safety</li> </ul>
Entry Age (years)	Minimum Age: 18	On completion of training and certification, s/he would be able to appropriately collect agriculture residue from farmers, establish collection points, make assessment of quality and quantity of agriculture residues and accordingly decides price. S/He would be able to appropriately sort, densify and suitably store the bales. S/he would also perform sale of the bales based on end requirements.
Trainer Qualification & Experience	10th Pass + Minimum 2 years of relevant experience	

### 33. Biomass Depot Operator SGJ/Q6207

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	72	After the training, the candidate would be appropriately trained to work as Biomass Depot Operator.
Trainee Qualification	10th pass	S/He will be trained to: <ul style="list-style-type: none"> <li>• Purchase of agriculture residue biomass from farmers/aggregators for stocking</li> <li>• Re-bale to densify collected agri-residue and standard of further supply</li> <li>• Appropriate storage of bales</li> <li>• Safety of bales and Depot from fire and other hazards</li> <li>• Maintain basic health and workplace safety</li> </ul>
Entry Age (years)	Minimum age: 18	
Trainer Qualification & Experience	12th Pass + Minimum 2 years of relevant experience	On completion of training and certification S/he would be appropriately able to handle, store and manage biomass at the storage depot. He/she will suitably undertake activities such as biomass receipt from suppliers, biomass pre-processing/densification and store in a manner so as to ensure its quality and safety from fire and other hazards as per standards.

### 34. Manager- Waste Management Elective: Biomass Depot or Compost Yard or Dry Waste Center SGJ/Q6501

QUALIFICATION PACK DETAILS		
NSQF Level	6	Description
Course Duration/ Training Hours	60 (E:30)	After the training, the candidate would be suitable to work as Manager- Waste Management.
Trainee Qualification	Graduate + minimum two years of experience in the field of waste management	S/He will be trained to: <ul style="list-style-type: none"> <li>• Carry out market analysis</li> <li>• Formulate an operational plan</li> <li>• Ensure compliance with applicable statutory laws, policies and procedures</li> <li>• Ensure health and safety at workplace</li> </ul>
Entry Age (years)	Minimum Age: 23	<p><b>Elective 1: Biomass Depot</b></p> <ul style="list-style-type: none"> <li>• Specialize in overall operations of biomass depot and associated business</li> </ul> <p><b>Elective 2: Compost Yard</b></p> <ul style="list-style-type: none"> <li>• Specialize overall operations of compost yard and associated business</li> </ul> <p><b>Elective 3: Dry Waste Center</b></p> <ul style="list-style-type: none"> <li>• Specialize overall operations of dry waste collection center and associated business</li> </ul>
Trainer Qualification & Experience	Graduate + minimum four years of experience in the field of waste management	On completion of training and certification, S/he would be appropriately able to carry out market analysis and formulate the business plan for the center. S/He will be able to manage the overall operation of the center and ensure health and safety at the workplace. S/He would ensure compliance of applicable statutory laws, policies and procedures relating to the center.



### 35. Wastewater treatment plant technician SGJ/Q6601

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	200	After the training, the candidate would be suitable to work as Wastewater Treatment Plant Technician. S/He would specialize in operation & maintenance of the Industrial and Housing Societies Wastewater Treatment Plants.
Trainee Qualification	12th Pass, 10th Pass + ITI/Diploma, 8th pass + 4 years of experience as Wastewater Treatment Plant Helper	<p>S/He will be trained on and will be able to:</p> <ul style="list-style-type: none"> <li>• Operate the Wastewater Treatment Plant</li> <li>• Monitor and Maintain Wastewater Treatment Plant</li> <li>• Work Safety at Wastewater Treatment Plant</li> </ul> <p>S/He would be able to operate Wastewater Treatment Plant and other related equipment. S/He would be able to perform the operation and cleaning of different screens, valves in a Wastewater Treatment Plant and charge the slurry tank. S/He would be able to do add desired quantity of chemicals and microbes to treat water. S/He would also facilitate the calibration of process control equipment as needed.</p>
Entry Age (years)	Minimum age: 18	
Trainer Qualification & Experience	ITI /Diploma + 3 years of relevant industry experience or B.Tech. + 2 Years of relevant industry experience or Certified Wastewater Treatment Plant technician + 2 years of relevant experience (education qualification can be relaxed in case of extraordinary relevant experience)	



### 36. Wastewater treatment plant Helper SGJ/Q6602

QUALIFICATION PACK DETAILS		
<b>NSQF Level</b>	3	<b>Description</b>
<b>Course Duration/ Training Hours</b>	160	After the training, the candidate would be suitable to work as Wastewater Treatment Plant Helper. S/He would assist in Operation and Maintenance of Industrial and Housing Societies Wastewater Treatment Plant.  S/He will be trained to: <ul style="list-style-type: none"> <li>• Maintain the Wastewater Treatment Plant</li> <li>• Assist the Supervisor in Wastewater Treatment Plant</li> <li>• Work Safety at Wastewater Treatment Plant</li> </ul> S/He would be able to help in operation of Wastewater Treatment Plant and other related equipment. S/He would be able to measure and record all meter and gauge readings, perform maintenance on filters and valves, Cleaning of Tanks, cleaning of work area and equipment.
<b>Trainee Qualification</b>	8th pass	
<b>Entry Age (years)</b>	Minimum age: 18	
<b>Trainer Qualification &amp; Experience</b>	ITI /Diploma + 3 years of relevant industry experience or B.Tech. + 2 Years of relevant industry experience or Certified Wastewater Treatment Plant technician + 2 years of relevant experience (education qualification can be relaxed in case of extraordinary relevant field experience)	

### 37. Septic Tank Technician SGJ/Q6402

QUALIFICATION PACK DETAILS		
<b>NSQF Level</b>	4	<b>Description</b>
<b>Course Duration/ Training Hours</b>	220	Septic Tank Technician is responsible for fabrication of different types of septic tanks/ soak pit and install at the site(commercial/institutional/residential). He/ She is responsible for selecting suitable configuration of septic tanks as per client requirement and execute its fabrication and installation with fellow masons. He/ She also undertake the work of repair and maintenance of existing septic tanks.  After the training, he/she will be trained on and will be able to: <ul style="list-style-type: none"> <li>• Assess the site and size of the septic tanks</li> <li>• Excavate, fabricate and install fixed septic tanks as per Central Public Health and Environmental Engineering Organization(CPHEEO) norms</li> <li>• Install prefabricated septic tanks</li> <li>• Repair and maintain septic tanks</li> <li>• Work effectively with co-workers</li> <li>• Maintain Health and safety in septic tank fabrication and installation</li> </ul>
<b>Trainee Qualification</b>	5th Pass, Minimum experience of 3 year in masonry work	
<b>Entry Age (years)</b>	Minimum Age: 19	
<b>Trainer Qualification &amp; Experience</b>	10th Pass, Minimum 2 years of experience in supervising masons and installation of septic tanks	

### 38. Desludging Operator SGJ/Q6403

QUALIFICATION PACK DETAILS		
<b>NSQF Level</b>	4	<b>Description</b>
<b>Course Duration/ Training Hours</b>	200	The Desludging Operator is responsible for emptying, transport and disposal of faecal sludge from the septic tank to desludging site / Faecal Sludge Treatment Plant. He /She has to operate pumps, suction hoses and other machinery/equipment to empty the septic tank and appropriately dispose the sludge. As an entrepreneur he/she would be trained to venture into desludging services for managing Faecal Sludge.
<b>Trainee Qualification</b>	5th Pass	
<b>Entry Age (years)</b>	Minimum age: 18	
<b>Trainer Qualification &amp; Experience</b>	10th Pass, Minimum 2 years of experience in faecal sludge and septage management	

### 39. Faecal Sludge Treatment Plant O&M Technician SGJ/Q6404

QUALIFICATION PACK DETAILS		
<b>NSQF Level</b>	4	<b>Description</b>
<b>Course Duration/ Training Hours</b>	200	The Faecal Sludge Treatment Plant (FSTP) operation and maintenance technician is responsible for carrying out day-to-day operations of the FSTP. He /She is also responsible for routine maintenance of pumps, engines, motors, filters, bar screens, valves, pipes, and any other equipment used in FSTP.
<b>Trainee Qualification</b>	ITI or Equivalent	
<b>Entry Age (years)</b>	Minimum Age: 18	
<b>Trainer Qualification &amp; Experience</b>	"Education Qualification : ITI /Diploma or B.Tech orThe education qualification can be relaxed in case of extraordinary relevant field experience Minimum 3 years of relevant industry experience for ITI /Diploma or Minimum 2 years of relevant industry experience for B.Tech	



#### 40. Assistant Planning Engineer – Wind Power Plant SGJ/Q1201

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	200	<p>After the training, the candidate would be suitable to work as Assistant Planning Engineer – Wind Power Plant.</p> <p>S/He will be trained to:</p> <ul style="list-style-type: none"> <li>• Assist in project planning for wind power plant</li> <li>• Assist in project evaluation and monitoring for wind power plant</li> <li>• Perform basic health and safety practices at project site (Ground and Height)</li> <li>• Work effectively with others</li> </ul> <p>S/He would carry out planning of workflow for turbines &amp; electrical system’s Erection &amp; Commissioning (E&amp;C), conduct statistical studies of product quality and time usage and analyse production costs and complying with all operational manuals, applicable codes, standards and safety requirements.</p>
Trainee Qualification	ITI / Diploma (Electrical, Mechanical, Civil)	
Entry Age (years)	Minimum age: 18	
Trainer Qualification & Experience	ITI/Diploma + 4 years of relevant industry experience or B.Tech./B.E. + 3 years of relevant industry experience	

**41. Site Surveyor-Wind Power Plant SGJ/Q1202**

QUALIFICATION PACK DETAILS		
NSQF Level	6	Description
Course Duration/ Training Hours	120	After the training, the candidate would be suitable to work as Site Surveyor - Wind Power Plant.
Trainee Qualification	B.E. / B. Tech. (Electrical/ Mechanical/ Civil/ Electronics and Communication / Electrical and Electronics/ Control & Instrumentation)	S/He will be trained to: <ul style="list-style-type: none"> <li>• Conduct site survey for wind power plant</li> <li>• Perform basic health and safety practices at project site (Ground and Height)</li> <li>• Work effectively with others</li> </ul>
Entry Age (years)	Minimum age: 21	S/He carries out site inspection, site assessment, checking site access, approach roads, grid availability for power evacuation, substation availability & its capacity and other relevant proximity of site.
Trainer Qualification & Experience	B.E./B. Tech (Electrical/ Mechanical/ Civil/ Electronics and Communication / Electrical and Electronics/ Control & Instrumentation) + 5 years of relevant industry experience or M.E./M.Tech. (Electrical, Electronics, Instrumentation, Renewable Energy) + 3 years of relevant industry experience	

**42. Construction Technician (Mechanical) - Wind Power Plant SGJ/Q1401**

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	200	After the training, the candidate would be suitable to work as Construction Technician (Mechanical) - Wind Power Plant.
Trainee Qualification	12th pass preferably	S/He will be trained to: <ul style="list-style-type: none"> <li>• Carry out the installation of mechanical components of wind power plant</li> <li>• Perform testing and commissioning of mechanical components of wind power plant</li> <li>• Perform basic health and safety practices at project site</li> <li>• Work effectively with others</li> </ul>
Entry Age (years)	Minimum age: 18	S/He would carry out installation, testing, erection & commissioning of all mechanical parts & components of wind power plant including WTG, transformer, blades, nacelle, junction boxes and other associated accessories as per design drawing.
Trainer Qualification & Experience	ITI/Diploma + 3 years of relevant industry experience or B.Tech./B.E. + 2 years of relevant industry experience	

### 43. Construction Technician (Civil) - Wind Power Plant SGJ/Q1402

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	200	After the training, the candidate would be suitable to work as Construction Technician (Civil) - Wind Power Plant.  S/He will be trained to: <ul style="list-style-type: none"> <li>• Carry out installation of civil components of wind power plant</li> <li>• Perform basic health and safety practices at project site (Ground and Height)</li> <li>• Work effectively with others</li> </ul> S/He would undertake site labelling, tower foundation, transformer foundation, switchyard & switchgear foundation and control room building foundation as per design drawing and preparation of approach road to the site.
Trainee Qualification	12th pass preferably	
Entry Age (years)	Minimum age: 18	
Trainer Qualification & Experience	ITI/Diploma + 3 years of relevant industry experience or B.Tech./B.E. + 2 years of relevant industry experience	

### 44. Construction Technician (Electrical) - Wind Power Plant SGJ/Q1403

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	160+ 40/40 (Optional)	After the training, the candidate would be suitable to work as Construction Technician (Electrical) - Wind Power Plant.  S/He will be trained to: <ul style="list-style-type: none"> <li>• Carry out installation of electrical components of wind power plant</li> <li>• Perform testing and commissioning of electrical components of wind power plant</li> <li>• Perform basic health and safety practices at Project Site (Ground and Height)</li> <li>• Work effectively with others</li> </ul> S/He would carry out installation, testing & commissioning of wind power plant including WTG, transformer, poles, O/H line, U/G cables, junction boxes, feeder pillars and other associated accessories like CMS with applicable codes, standards, and safety requirements.
Trainee Qualification	12th pass preferably	
Entry Age (years)	Minimum Age:18	
Trainer Qualification & Experience	ITI/Diploma + 3 years of relevant industry experience or B.Tech./B.E. + 2 years of relevant industry experience	

### 45. CMS Engineer- Wind Power Plant SGJ/Q1501

QUALIFICATION PACK DETAILS		
NSQF Level	5	Description
Course Duration/ Training Hours	200	<p>After the training, the candidate would be suitable to work as CMS Engineer- Wind Power Plant. S/He would be responsible for carrying out installation and commissioning of Condition Monitoring System (CMS) of the wind power plant.</p> <p>S/He will be trained to:</p> <ul style="list-style-type: none"> <li>• Carry out installation and commissioning of Condition Monitoring System of Wind Power Plant</li> <li>• Operate and Maintain CMS of Wind Power Plant</li> <li>• Perform basic health and safety practices at Project site (Ground and Height)</li> <li>• Work effectively with others</li> </ul> <p>S/he would further, plan and monitor the operation and maintenance of the CMS with a continuous stream of system data, mostly based on vibration monitoring and other operating conditions.</p>
Trainee Qualification	B. Tech (Electrical, Electronics)	
Entry Age (years)	Minimum age: 20	
Trainer Qualification & Experience	B.E/B. Tech (Electrical, Electronics) + 3 years of relevant industry experience or M.E/M. Tech. (Electrical, Electronics, Instrumentation, Renewable Energy) + 1 year of relevant industry experience (education qualification can be relaxed in case of extraordinary relevant field experience)	

### 46. O&M Mechanical Technician – Wind Power Plant SGJ/Q1502

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	200	<p>After the training, the candidate would be suitable to work as O&amp;M Mechanical Technician –Wind Power Plant.</p> <p>S/He will be trained to:</p> <ul style="list-style-type: none"> <li>• Carry out operation of mechanical components of wind power plant</li> <li>• Carry out maintenance of mechanical components of wind power plant</li> <li>• Perform basic health and safety practices at project site (Ground and Height)</li> <li>• Work effectively with others</li> </ul> <p>S/He would carry out operations and maintenance of mechanical components of wind power plant, complying with all operational manuals, applicable codes, standards, and safety requirements.</p>
Trainee Qualification	12th pass preferably	
Entry Age (years)	Minimum Age:18	
Trainer Qualification & Experience	ITI/Diploma + 3 years of relevant industry experience or B.Tech./B.E. + 2 years of relevant industry experience	

### 47. O&M Electrical & Instrumentation Technician – Wind Power Plant SGJ/Q1503

QUALIFICATION PACK DETAILS		
NSQF Level	4	Description
Course Duration/ Training Hours	200	<p>After the training, the candidate would be suitable to work as O&amp;M Electrical &amp; Instrumentation –Wind Power Plant. S/He would inspect, diagnose, troubleshoot and repair electrical &amp; instrumentation systems of wind power plant.</p> <p>S/He will be trained to:</p> <ul style="list-style-type: none"> <li>• Carry out operation of electrical &amp; instrumentation systems of wind power plant</li> <li>• Carry out maintenance of electrical &amp; instrumentation systems of wind power plant</li> <li>• Perform basic health and safety practices at project site (Ground and Height)</li> <li>• Work effectively with others</li> </ul>
Trainee Qualification	12th pass preferably	<p>S/he is expected to perform operation and maintenance of switchgear, transformer, O/H and U/G Lines, SCADA, communication system (Fibre Optics) and complying with all operational manuals, applicable codes/standards, and safety requirements.</p>
Entry Age (years)	Minimum age: 18	
Trainer Qualification & Experience	ITI/Diploma + 3 years of relevant industry experience or B.Tech./B.E. + 2 years of relevant industry experience	



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