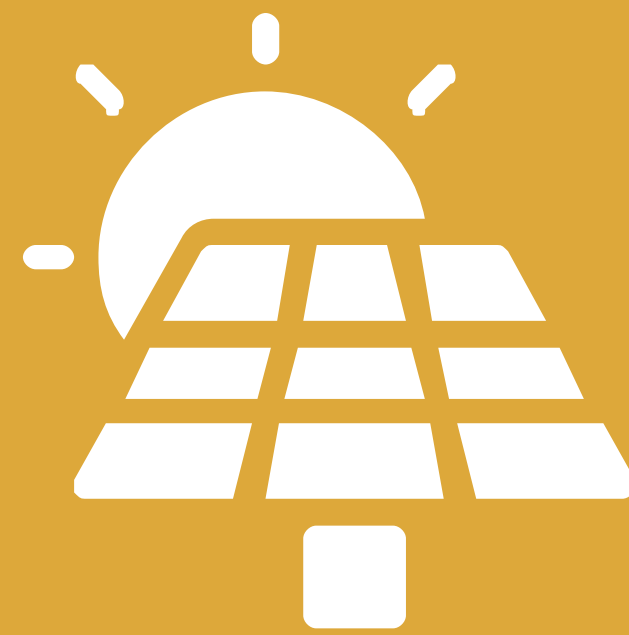
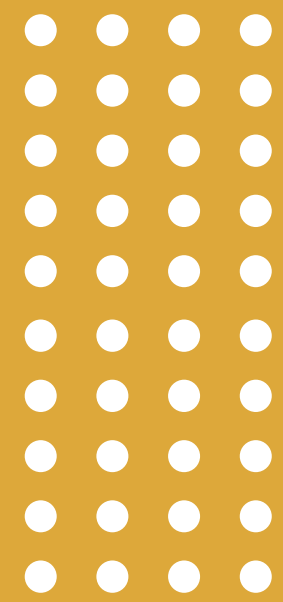


Qualifications (Skill Course)

# Solar Energy



1

## Solar PV Installer (Suryamitra) SGJ/Q0101 v3.0

NQR Code: [2022/EHW/SCGJ/06724](https://www.ehw.gov.sg/SCGJ/06724)

### DESCRIPTION

The Learner 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.

### Overview of QP

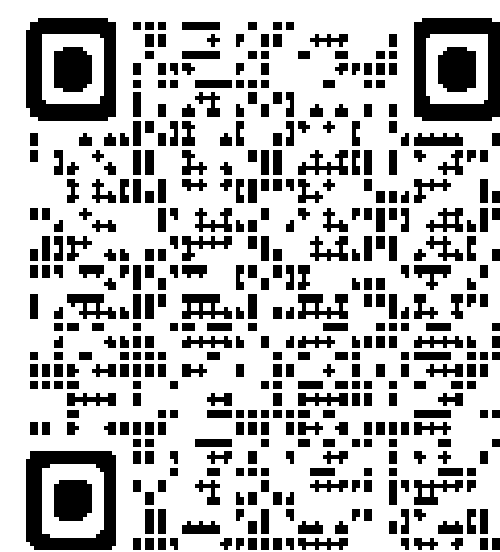
NSQF Level: 4

Course Duration/Training Hours: 420

**Trainee Qualification:** 10th pass + ITI / Diploma ( Electrical, Electronics, Civil, Mechanical, Fitter, Instrumentation/Welder)

**Entry Age (Years):** Minimum age: 16

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2

## Solar PV Installer – Electrical SGJ/Q0102 v3.0

NQR Code: [2022/EHW/SCGJ/06725](https://www.ehw.gov.sg/SCGJ/06725)

### DESCRIPTION

The Learner 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.

### Overview of QP

NSQF Level: 4

Course Duration/Training Hours: 390

**Trainee Qualification:** 10th + I.T.I (Electrical and Electronics)/Diploma (Electrical, Electronics) OR 10thpass+3 years of experience as Electrician

**Entry Age (Years):** Minimum age: 16

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to access related content





3

**Solar PV Solar PV Installer – Civil SGJ/Q0103 v3.0**NQR Code: [2021/EHW/SCGJ/04259](#)**DESCRIPTION**

The Learner 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.

**Overview of Qualification**

NSQF Level: 4

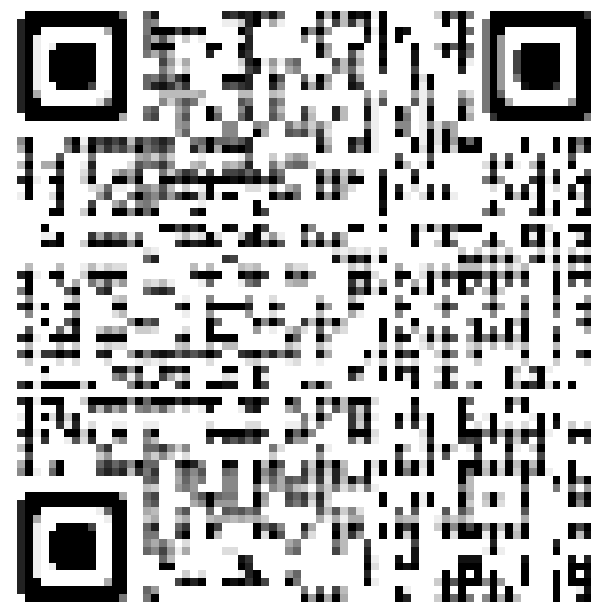
Course Duration/Training Hours: 390

**Trainee Qualification:** 10th pass + ITI / Diploma (Civil/Mechanical/Fitter/Welder) OR 10 pass+3 years of experience as Mason

**Entry Age (Years):** Minimum age: 16

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to access related content



4

**Solar Proposal Evaluation Specialist SGJ/Q0105 v3.0**NQR Code: [QG-05-EH-00516-2023-V1.1-SCGJ](#)**DESCRIPTION**

The Learner 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.

**Overview of Qualification**

NSQF Level: 5

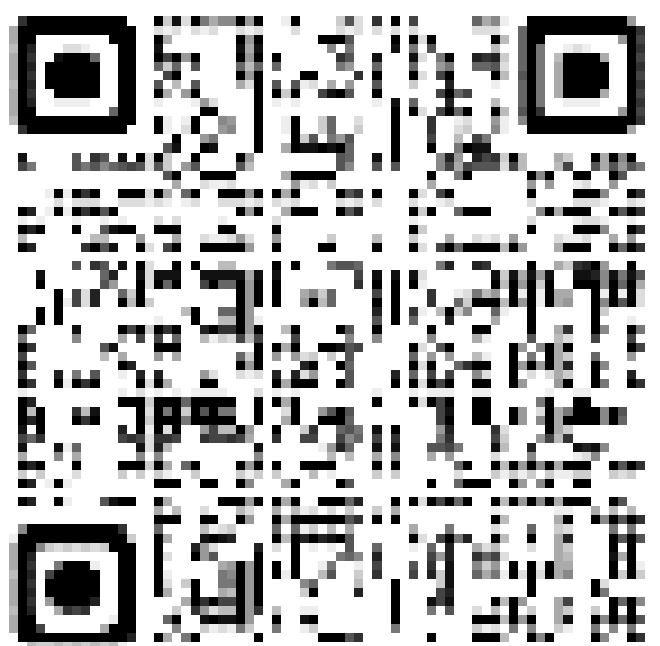
Course Duration/Training Hours: 480

**Trainee Qualification:** Any Graduate with 3 Years of experience in a financial institution/bank/managing project finance/Post Graduate (MBA/CA)

**Entry Age (Years):** Minimum age: 19

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to access related content



5

**Rooftop Solar Grid Engineer SGJ/Q0106 v3.0**NQR Code: [QG-05-ES-00517-2023-V1.1-SCGJ](#)**DESCRIPTION**

The Learner 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.

**Overview of Qualification**

NSQF Level: 5

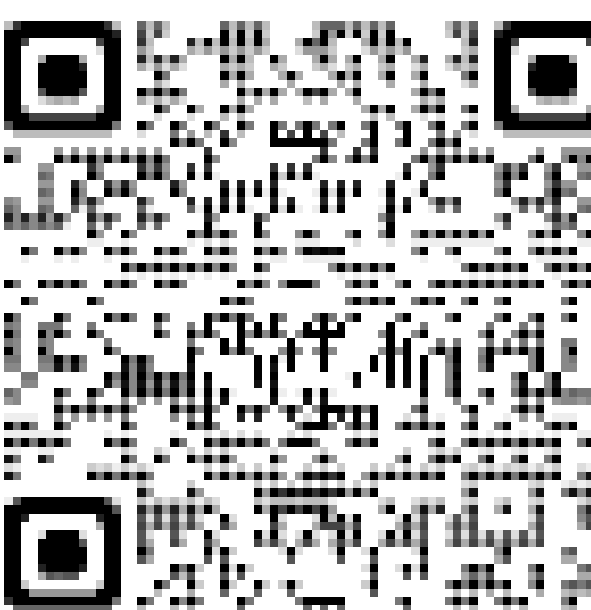
Course Duration/Training Hours: 540

**Trainee Qualification:** B.E./B.Tech (Electrical, Mechanical or equivalent) OR Graduate (Science) with 2 Year of experience OR Diploma (Electrical or equivalent) with 1 Year of experience

**Entry Age (Years):** Minimum age: 19

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to access related content



6

**Solar PV Business Development Executive SGJ/Q0107 v3.0**NQR Code: [QG-05-ES-00518-2023-V1.1-SCGJ](#)**DESCRIPTION**

The Learner 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.

**Overview of Qualification**

NSQF Level: 5

Course Duration/Training Hours: 540

**Trainee Qualification:** 10th Class+ 2 years ITI/Diploma with 3 years of relevant experience; OR BBA/B.Com, with 1 year of experience; OR B.Tech/BE/B.VoC (Renewable Energy or equivalent) with no experience

**Entry Age (Years):** Minimum age: 19

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7

## Solar PV Structural Assistant Design Engineer SGJ/Q0109 v3.0

NQR Code: [QG-05-ES-00519-2023-V1.1-SCGJ](#)

### DESCRIPTION

The learner would be able to 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.

### Overview of Qualification

NSQF Level: 5

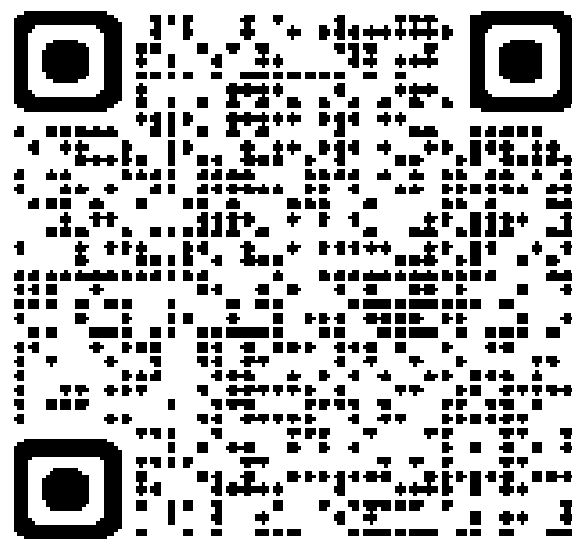
Course Duration/Training Hours: 510

**Trainee Qualification:** Diploma in Civil Engineering/Structural Engineering

**Entry Age (Years):** Minimum age: 19

Scan QR Code

to access related content



8

## Solar PV Designer SGJ/Q0110 v3.0

NQR Code: [QG-07-ES-00520-2023-V1.1-SCGJ](#)

### DESCRIPTION

The Learner would be able to review civil and electrical design of the Solar PV power plant & prepare the energy simulation report.

### Overview of Qualification

NSQF Level: 7

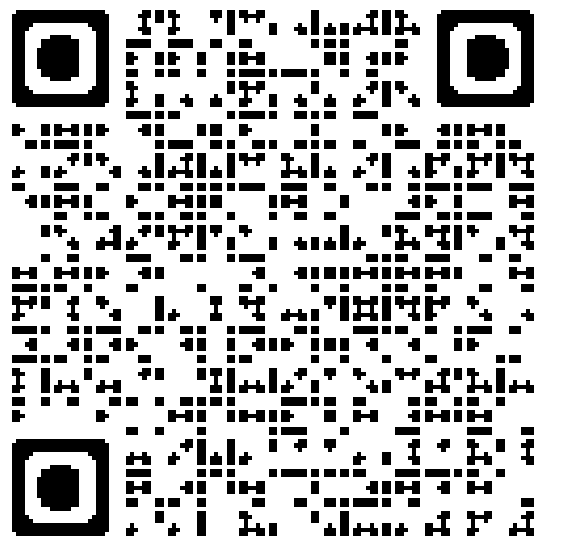
Course Duration/Training Hours: 690

**Trainee Qualification:** Graduates (B. Tech/ B.E. in Solar/Electrical, Electronics, Civil, Mechanical/Energy Systems) with 5 years of Solar PV experience OR Post- Graduates (M. Tech in Solar/ Renewables/ Energy Studies) with 3 years of experience in the sector

**Entry Age (Years):** Minimum age: 23

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9

## Solar PV Project Helper SGJ/Q0111 v3.0

NQR Code: [QG-02-EH-00521-2023-V1.1-SCGJ](#)

### DESCRIPTION

The Learner 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.

### Overview of Qualification

NSQF Level: 2

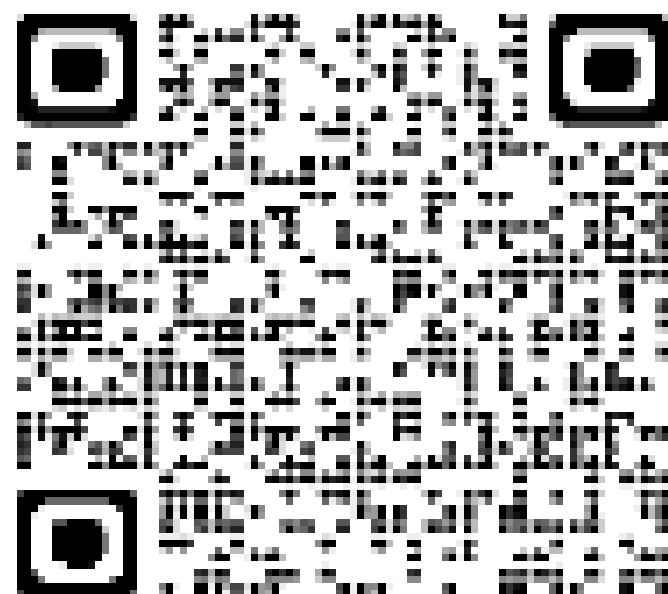
Course Duration/Training Hours: 270

**Trainee Qualification:** Ability to read and write

**Entry Age (Years):** Minimum age: 16

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to access related content



10

## Solar PV Engineer SGJ/Q0112 v3.0

NQR Code: [QG-05-ES-00522-2023-V1.1-SCGJ](#)

### DESCRIPTION

The Learner would be able to take responsibility of design, installation and commissioning of solar power plant at site, its quality QA and HSE issues. S/he would also prepare site feasibility report. Learner also given an option to opt training on Solar Water Pumping, as a part of learning, S/he would also be able to design, install and commission solar water pumping systems.

### Overview of Qualification

NSQF Level: 5

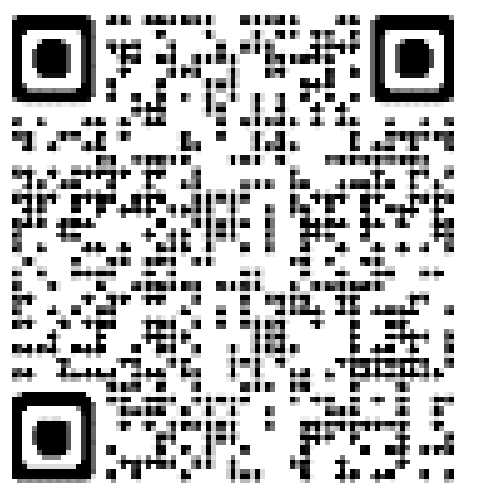
Course Duration/Training Hours: 510

**Trainee Qualification:** B.E./B.Tech. OR Diploma (Electrical/Electronics/ Civil/Mechanical) with 2 years of relevant experience

**Entry Age (Years):** Minimum age: 19

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to access related content





11

**Solar PV Project Manager(E&C) SGJ/Q0114 v2.0**NQR Code: [2021/EHW/SCGJ/04267](#)**DESCRIPTION**

The Learner with her/his team of site in-charge and commercial manager, receives different components of the solar PV power plant (modules, inverter, transformers etc.) procure 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.

**Overview of Qualification****NSQF Level: 7****Course Duration/Training Hours: 660**

**Trainee Qualification:** Completed 3 year UG degree with 3 Years of experience Relevant experience.

B.Tech. in Engineering and Technology with 6 years' of experience in renewable energy/power sector utilities/consulting firms/solar PV power plant installation and commissioning

**Entry Age (Years):** Minimum age: 23

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12

**Solar PV Maintenance Technician - Electrical (Ground Mount)**SGJ/Q0115 v2.0 NQR Code: [2021/EHW/SCGJ/04268](#)**DESCRIPTION**

The Learner 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.

**Overview of Qualification****NSQF Level: 4****Course Duration/Training Hours: 420**

**Trainee Qualification:** ITI - Electrical and Electronics

**Entry Age (Years):** Minimum age: 18

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to access related content



13

**Solar PV Manufacturing Operator SGJ/Q0119 v2.0**NQR Code: [2021/EHW/SCGJ/04269](#)**DESCRIPTION**

The Learner 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.

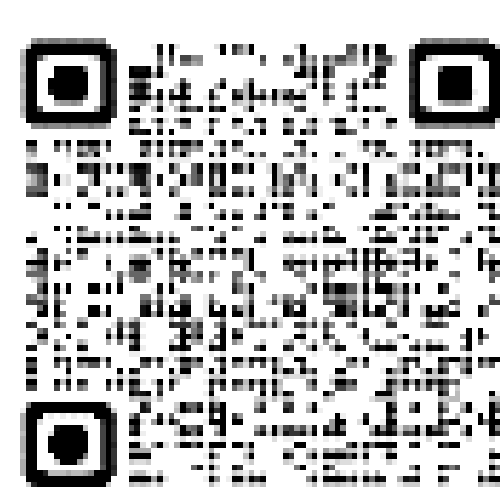
**Overview of Qualification****NSQF Level: 4****Course Duration/Training Hours: 420**

**Trainee Qualification:** 10<sup>th</sup> pass

**Entry Age (Years):** Minimum age: 18

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to access related content



14

**Solar Lighting Assembler SGJ/Q0201 v2.0**NQR Code: [2021/EHW/SCGJ/04270](#)**DESCRIPTION**

The Learner would be able to perform assembly of different types of solar lamps, repair of solar lamps with safety. With an elective, S/he would be able to assemble and repair of solar home lighting systems and solar street lights.

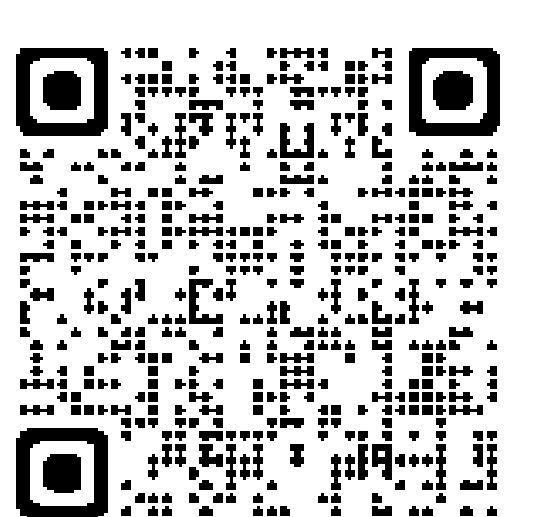
**Overview of Qualification****NSQF Level: 4****Course Duration/Training Hours: 420**

**Trainee Qualification:** 8<sup>th</sup> Pass

**Entry Age (Years):** Minimum age: 16

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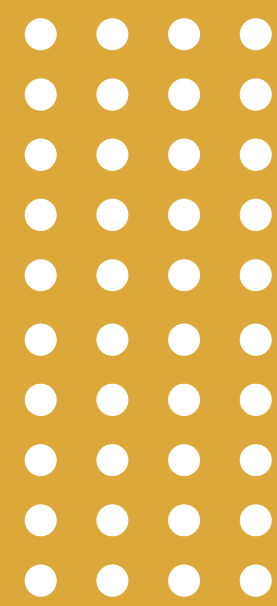




## Qualifications (Skill Course)

# Solar Energy

Potential Job role



15

### Solar Photovoltaic Entrepreneur SGJ/Q0901 v2.0

NQR Code: [QG-05-ES-00528-2023-V1.1-SCGJ](#)

#### DESCRIPTION

Solar Photovoltaic Entrepreneur is an individual who ventures into Solar market to lead an enterprise. He/She has the understanding of solar business models, market, technical knowledge of solar PV plants/system, along with components procurement and financing. Solar Photovoltaic Entrepreneur can prepare the feasibility study report and perform basic energy generation forecasting using simulation software for solar PV system and is also responsible for the managing the complete Solar PV project lifecycle.

**NSQF Level:** 5

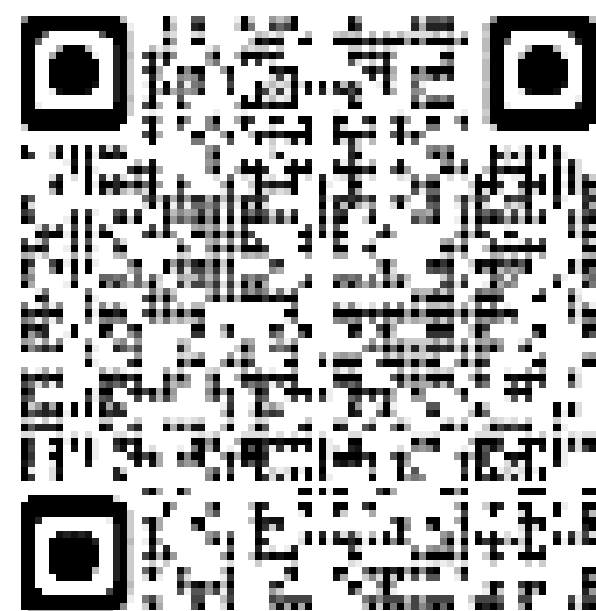
**Course Duration/Training Hours:** 540 hours.

**Trainee Qualification:** Class 12th with 3 years of relevant experience in solar sector

**Entry Age (Years):** Minimum age: 21years

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16

### Solar PV Cell Manufacturing Technician SGJ/Q0203 v3.0

NQR Code: [QG-04-ES-00147-2023-V1-SCGJ](#)

#### DESCRIPTION

Solar PV Cell Manufacturing Technician performs solar cell manufacturing tasks in a production line, cleans silicon wafer, undertake chemical and thermal processing in making solar cells. The job holder operates various stations including metallization processes and is also responsible for testing and packaging of solar cells.

**NSQF Level:** 4

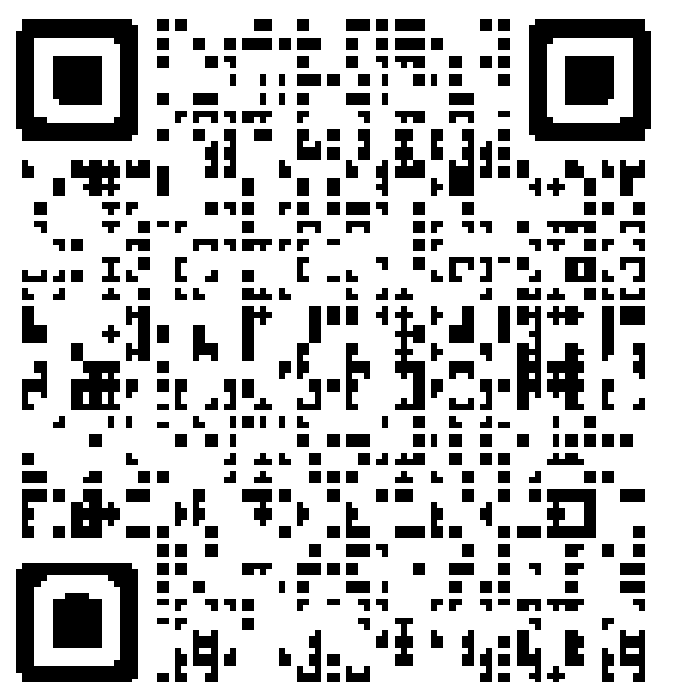
**Course Duration/Training Hours:** 420 hours.

**Trainee Qualification:** Class 12th with 3 years of relevant experience in solar sector

**Entry Age (Years):** Minimum age: 16years

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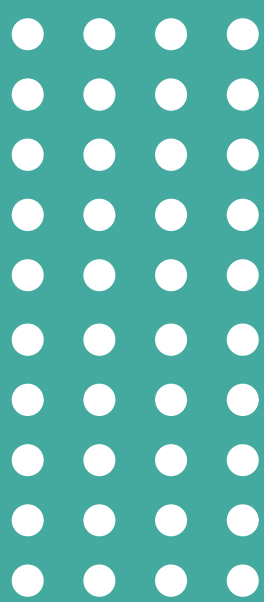
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Qualifications (Skill Course)

Wind Energy



17 Project Assistant Planner – Wind Power Plant SGJ/Q1201 v3.0  
NQR Code: [QG-03-PW-00529-2023-V1.1-SCGJ](#)

**DESCRIPTION**

The Learner would assists in carrying out planning of workflow for turbines & electrical systems, Erection & Commissioning (E&C), help in conducting statistical studies of product quality and time usage and support to analyze production costs while complying with all operational manuals, applicable codes, standards and safety requirements.

Overview of Qualification

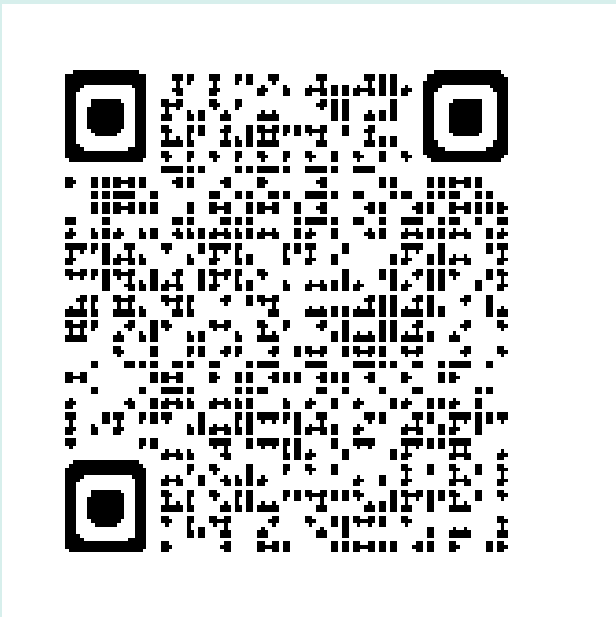
**NSQF Level:** 3

**Course Duration/Training Hours:** 330

**Trainee Qualification:** Class 12th with Science OR ITI after Class 10th (in Electrical/ Mechanical/ Civil/ and related trades) or Government recognized 3 years Diploma (Electrical/ Mechanical/ Civil/Electronics & Communication / Control & Instrumentation)

**Entry Age (Years):** Minimum age: 16

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18 Wind Resource Assessor and Site Surveyor-Wind Power Plant  
SGJ/Q1202 v3.0 NQR Code: [QG-05-PW-00530-2023-V1.1-SCGJ](#)

**DESCRIPTION**

The Learner would carries out wind energy site inspection, site assessment, checking site access, approach roads, grid availability for power evacuation, substation availability & its capacity and other relevant proximity of site.

Overview of Qualification

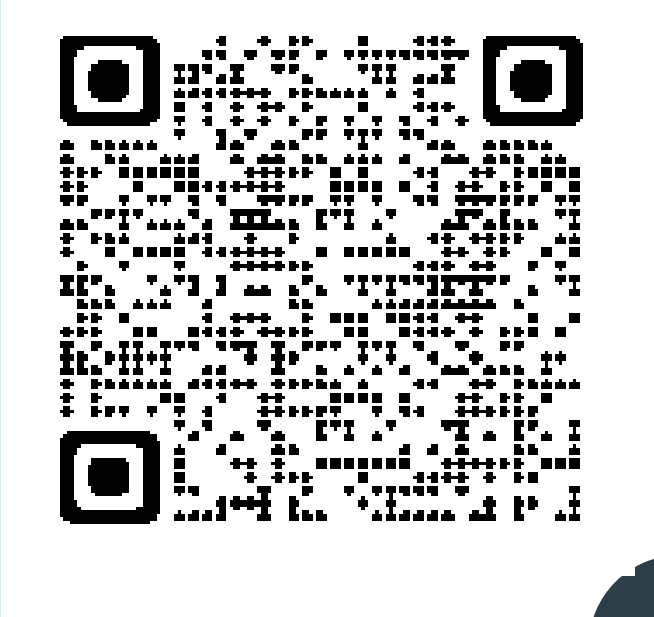
**NSQF Level:** 5

**Course Duration/Training Hours:** 480

**Trainee Qualification:** B.E./B.Tech (Electrical/ Mechanical/ Civil/ Electronics and Communication / Control & Instrumentation) Or Government recognized 3 years Diploma after class XII (Electrical/ Mechanical/ Civil/Electronics & Communication / Control & Instrumentation), with 2 years of relevant work experience

**Entry Age (Years):** Minimum age: 18

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19

Construction Technician- Wind Power Plant SGJ/Q1401 v3.0

NQR Code: [QG-04-PW-00531-2023-V1.1-SCGJ](#)

DESCRIPTION

The Learner would carry out installation, testing, erection & commissioning of all parts & components of wind power plant including WTG, transformer, blades, nacelle, junction boxes and other associated accessories as per design drawing. With an elective of mechanical, electrical and civil, s/he would carryout installation and commissioning of respective components.

Overview of Qualification

NSQF Level: 4

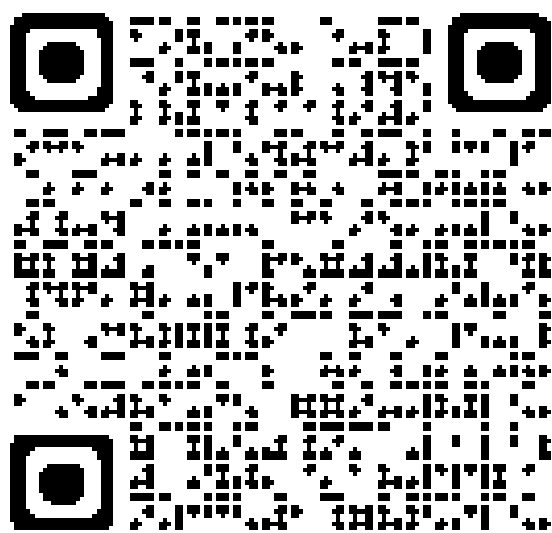
Course Duration/Training Hours: 420

**Trainee Qualification:** Class 12th with science with 1 year relevant work experience OR ITI after class 10th (in Electrician /Mechanical/ Fitter/Welder/ and related trades) with 1 year of relevant work experience OR Government recognized 3 years Diploma (in Electrical/ Mechanical/ Civil/Electronics & Communication / Control & Instrumentation)

**Entry Age (Years):** Minimum age: 16

Scan QR Code

to access related content



20

CMS Engineer- Wind Power Plant SGJ/Q1501 v3.0

NQR Code: [QG-05-PW-00532-2023-V1.1-SCGJ](#)

DESCRIPTION

The Learner would be able to carry out installation and commissioning of Condition Monitoring System(CMS) of Wind Power Plant. S/he would also monitor the operation and maintenance of the CMS with a continuous stream of system data, mostly based on vibration monitoring and other operating conditions.

Overview of Qualification

NSQF Level: 5

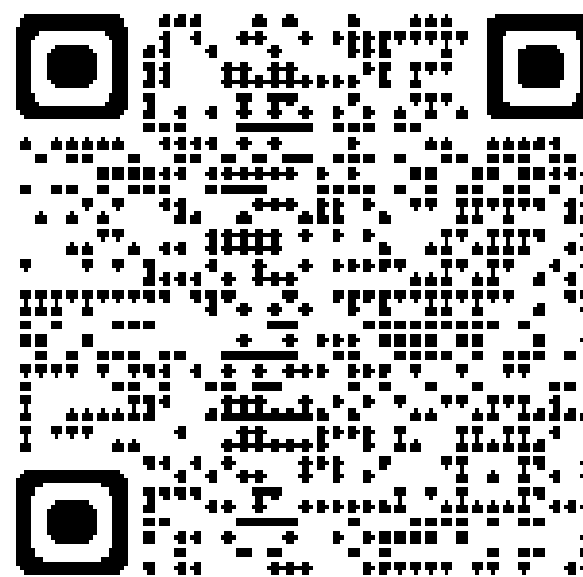
Course Duration/Training Hours: 480hours

**Trainee Qualification:** B.E./B.Tech. (Electrical /Electronics/Instrumentation and control engineering/Mechanical/Computer and Communications)

**Entry Age (Years):** Minimum age: 19

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to access related content



21

O&M Mechanical Technician – Wind Power Plant SGJ/Q1502 v3.0

NQR Code: [QG-04-PW-00533-2023-V1.1-SCGJ](#)

DESCRIPTION

The Learner would carry out operations and maintenance of mechanical components of wind power plant, complying with all operational manuals, applicable codes, standards, and safety requirements.

Overview of Qualification

NSQF Level: 4

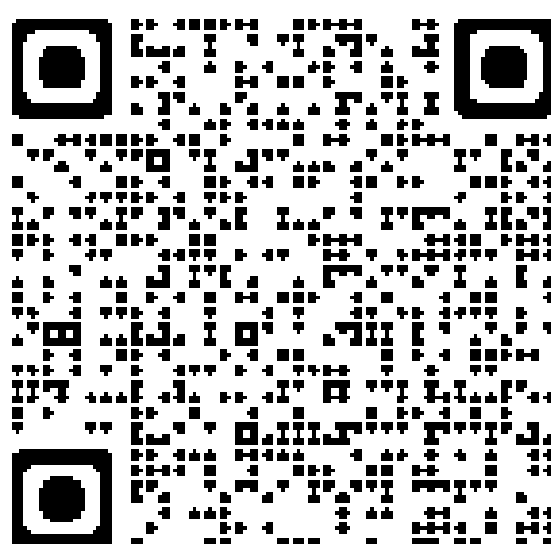
Course Duration/Training Hours: 420 hours

**Trainee Qualification:** Class 12th with science with 1 year relevant work experience or ITI after Class 10th (Electrician /Mechanical/ Fitter/Welder/ and related trades) with 1 year of relevant work experience Or Government recognized 3 years Diploma (Electrical/ Mechanical/ Civil/Electronics & Communication / Control & Instrumentation)

**Entry Age (Years):** Minimum age: 16

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22

O&M Electrical & Instrumentation Technician – Wind Power Plant

SGJ/Q1503 v3.0 NQR Code: [QG-04-PW-00534-2023-V1.1-SCGJ](#)

DESCRIPTION

The Learner would perform operation and maintenance of switchgear, transformer, O/H and U/G Lines, SCADA, communication system (Fiber Optics) and complying with all operational manuals, applicable codes/standards, and safety requirements.

Overview of Qualification

NSQF Level: 4

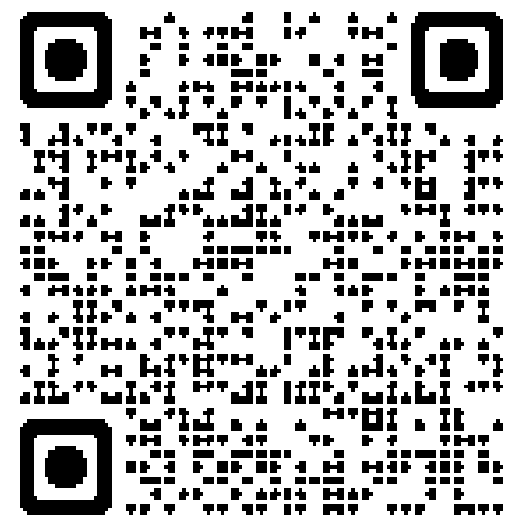
Course Duration/Training Hours: 420 hours

**Trainee Qualification:** Class 12th with science with 1 year relevant work experience OR ITI after class 10th (in Electrician /Mechanical/ Fitter/Welder/ and related trades) with 1 year of relevant work experience OR Government recognized 3 years Diploma (in Electrical/ Mechanical/ Civil/Electronics & Communication / Control & Instrumentation)

**Entry Age (Years):** Minimum age: 16

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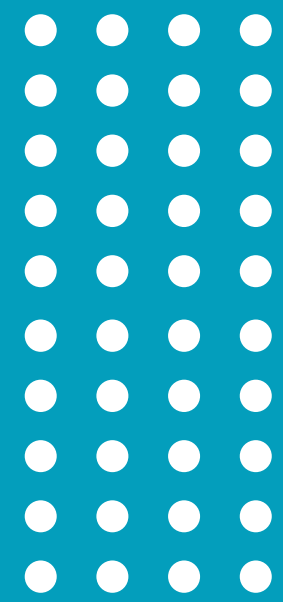
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Qualifications (Skill Course)

# Small Hydro



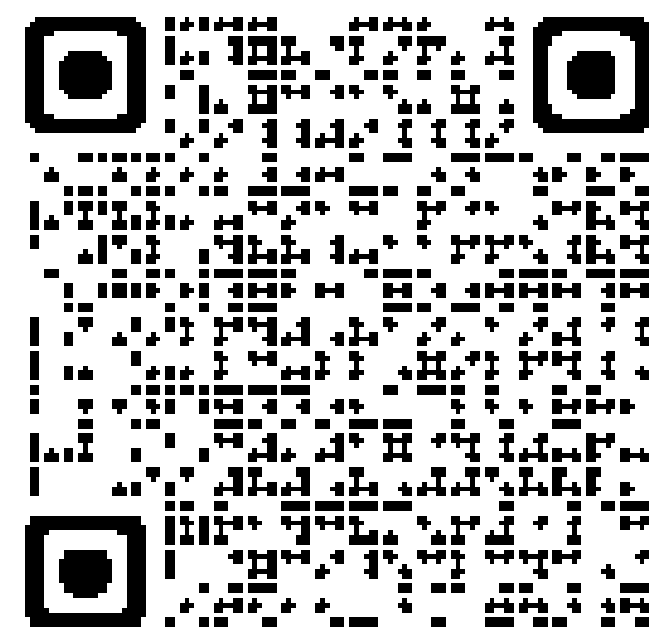
## 23 Small Hydro Power Plant Technician (Jal Urja Mitra) SGJ/Q0604 v2.0

NQR Code: [QG-04-PW-00527-2023-V1.1-SCGJ](#)

### DESCRIPTION

The Learner would be specialized to operate, test and maintain different electrical, hydro-mechanical, civil components of Small Hydro Power plant to meet the performance and reliability needs by incorporating quality workmanship and complying with all applicable codes, standards and safety requirements.

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### Overview of Qualification

NSQF Level: 4

Course Duration/Training Hours: 450

**Trainee Qualification:** Class 12th with science with 1 year relevant work experience or

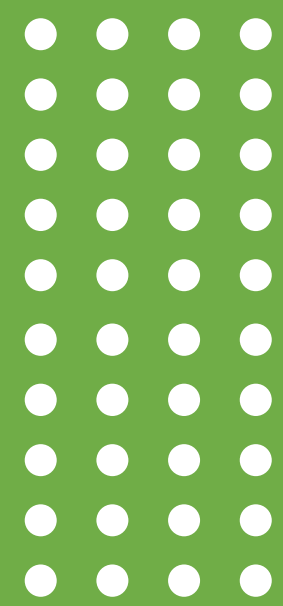
ITI after Class 10th (in Electrical/ Mechanical/ Civil/ Instrumentation and related trades) with 1 year of relevant work experience or Government recognized 3 years Diploma (Electrical/ Mechanical/ Civil/ Control & Instrumentation)

**Entry Age (Years):** Minimum age: 18



Qualifications (Skill Course)

# Biomass Management



24

## Recyclable Waste Collector and Segregator SGJ/Q6101 v2.0

NQR Code: [2021/WSSWM/SCGJ/04271](https://www.wsswm.gov.in/SCGJ/04271)

### DESCRIPTION

The Learner 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. S/he also ensure health and safety at the workplace. As an entrepreneur S/he would be able to venture into entrepreneurship for recyclable waste collection.

### Overview of Qualification

NSQF Level: 4

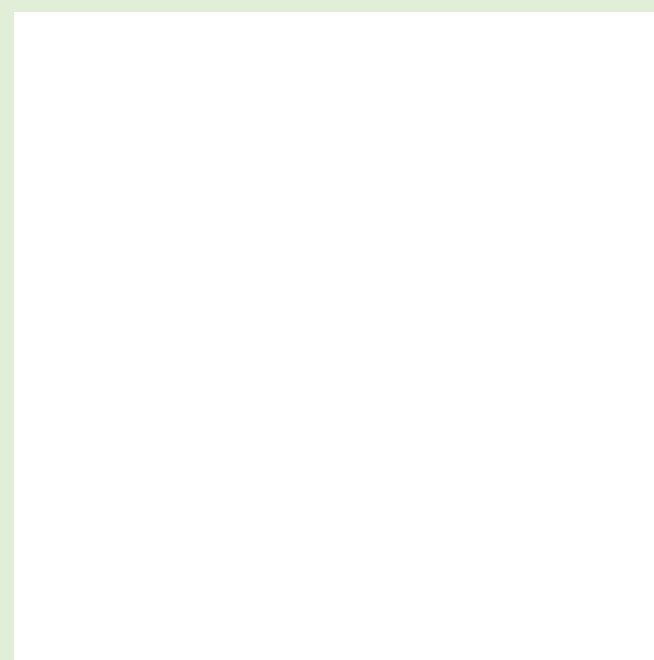
Course Duration/Training Hours: 160

Trainee Qualification: Ability to read and write

Entry Age (Years): Minimum age: 16

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to access related content



25

## Safai Karamchari SGJ/Q6102 v3.0

NQR Code: [2022/WSSWM/SCGJ/06727](https://www.wsswm.gov.in/SCGJ/06727)

### DESCRIPTION

The Learner 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. As an elective for wet cleaning, S/he would specialize in wet cleaning, cleaning and washing bathrooms, lavatory and removing garbage and other waste in closed dustbin. As an elective for 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.

### Overview of Qualification

NSQF Level: 3

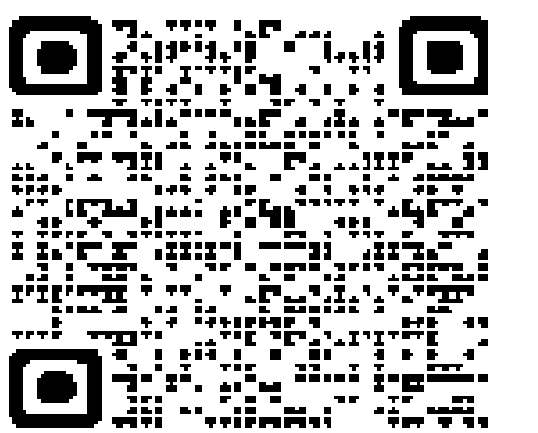
Course Duration/Training Hours: 330

Trainee Qualification: Ability to read and write

Entry Age (Years): Minimum age: 16

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26

Waste Picker SGJ/Q6103 v2.0  
NQR Code: [2021/WSSWM/SCGJ/04273](#)

DESCRIPTION

The Learner would be able to identify 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. S/he recognize 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.

Overview of Qualification

NSQF Level: 3

Course Duration/Training Hours: 160

Trainee Qualification: Not Applicable

Entry Age (Years): Minimum age: 18

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27

Animal Waste Manure Aggregator SGJ/Q6302 v 2.0  
NQR Code: [2022/ES/SCGJ/06730](#)

DESCRIPTION

The Learner would 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. As an option for Biogas Operator, S/he would monitor, operate and maintain biogas plant. As an option for Compost Plant Operator, S/he would monitor, operate and maintain compost plant.

Overview of Qualification

NSQF Level: 43

Course Duration/Training Hours: 390

Trainee Qualification: 10th pass

Entry Age (Years): Minimum age: 16

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28

Plant Head- Operations (Compressed Biogas/Waste To Energy)  
SGJ/Q0607 v1.0 NQR Code: [2022/WSSWM/SCGJ/05145](#)

DESCRIPTION

The Learner would develop and implement organizational Strategies and Policies to monitor Operation and Maintenance of the Production Unit. S/he would ensure Resource Optimization, Waste Management and Appropriate Documentation. S/he would also manage Human Resources in the CBG Plant and other administrative activities with applicable statutory compliances.

Overview of Qualification

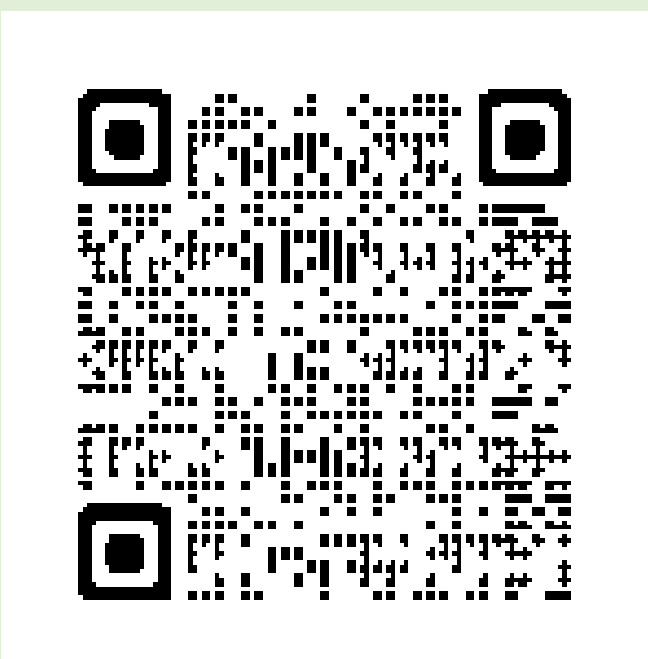
NSQF Level: 7

Course Duration/Training Hours: 600 hours including 400 hours of compulsory modules and 200 hours of mandatory OJT

Trainee Qualification: B.Tech./B.E (Agriculture/ Environment /Civil/Mechanical/Electrical Engineering or Equivalent) with 8 Years of experience in the relevant field OR MTech /Post Graduate (Agriculture/Environment science) or in any relevant discipline with 6 years of experience in the relevant field OR NSQF level 6 certified in relevant job role (e.g. Manager- Waste Management) with 2 years of relevant experience Or Certified Supervisor – Operations and Maintenance Compressed Biogas/Waste to Energy - Level 5 with 5 years of relevant work experience.

Entry Age (Years): Minimum age: 28

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29

Biomass Depot Operator SGJ/Q6207 v2.0  
NQR Code: [2022/ES/SCGJ/06729](#)

DESCRIPTION

The Learner 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 hazards as per standards.

Overview of Qualification

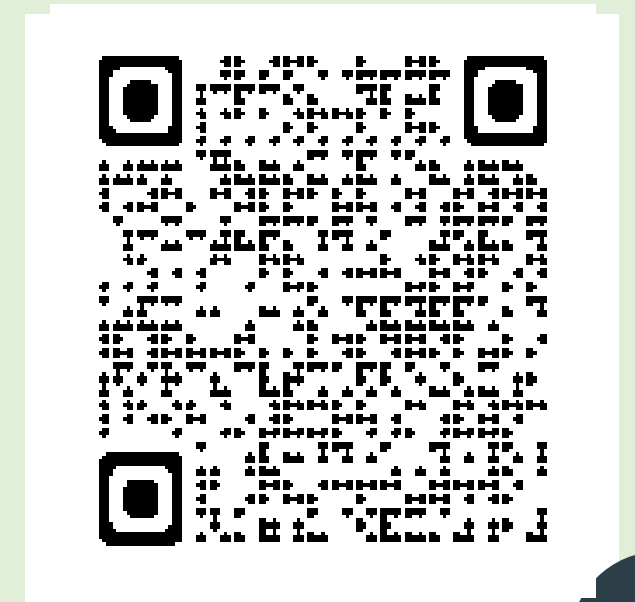
NSQF Level: 4

Course Duration/Training Hours: 390

Trainee Qualification: 10th Pass with 2 years of experience  
or NSQF Level 3 certified Agri Residue Aggregator with 1 year of suitable experience

Entry Age (Years): Minimum age: 16

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to access related content





30

Manager- Waste Management SGJ/Q6501 v2.0

NQR Code: [2022/WSSWM/SCGJ/05149](#)

DESCRIPTION

The Learner 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. As an elective for Biomass Depot, She/he specialize in overall operations of biomass depot and associated business. As an elective for Compost Yard, S/he specialize overall operations of compost yard and associated business. As an elective for Dry Waste Center, s/he specializes overall operations of dry waste collection center and associated business.

Overview of Qualification

NSQF Level: 6

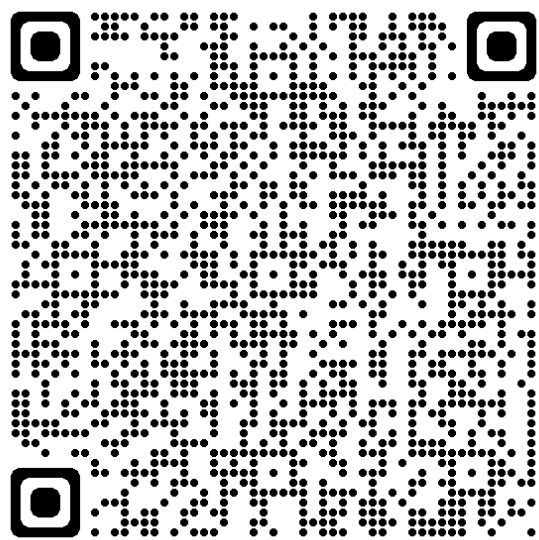
Course Duration/Training Hours: 520 hours including 220 hours of compulsory modules +100 hours of mandatory “on the job training” + 100 hours of optional “on the job training”, with one compulsory Elective of 100 hours

Trainee Qualification: Diploma (Government recognized 3 years Diploma in a relevant discipline) with 4 Years of experience in the relevant field Or Graduate in relevant discipline with 3 Years of experience in the relevant field Or BE (Agricultural Engineering) / BE/BTech in relevant discipline, with 2 years of experience in the relevant field Or MSc Agriculture OR Post Graduation in relevant discipline, with 1 year of experience in relevant field Or NSQF level 5 certified in relevant job role (e.g. Supervisor Operations and Maintenance Compressed Biogas/Waste to Energy) with 2 years of relevant experience

Entry Age (Years): Minimum age: 23

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31

Technician – Operations and Maintenance (Compressed Biogas

/Waste to Energy) SGJ/0606 v1.0 NQR Code: [2022/WSSWM/SCGJ/05146](#)

DESCRIPTION

The Learner would support effective and efficient operation and maintenance of a CBG plant by troubleshooting, repairing and ensuring maximum up-time of the plant. S/he would also assist in Monitoring and Handling Major Breakdown in the CBG Plant.

Overview of Qualification

NSQF Level: 4

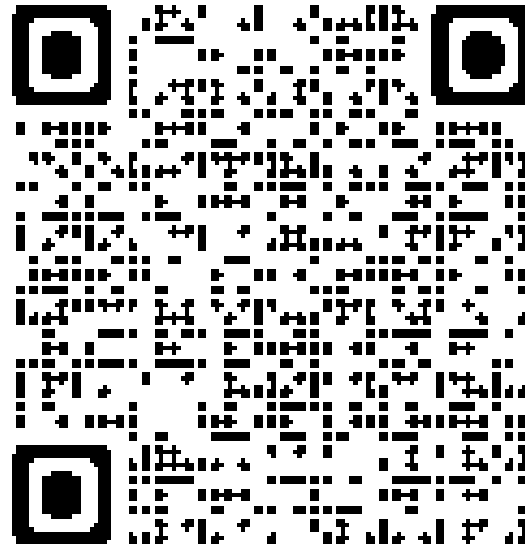
Course Duration/Training Hours: 420 hours

Trainee Qualification: 12th Class (Science) with 1 Year of relevant work experience Or 10th Class + I.T.I (Electrician /Mechanical/ Fitter/Welder/ and related trades) with 1 Year of relevant work experience Or Diploma (Government recognized 3 years Diploma (Electrical / Mechanical/Civil /Agriculture/ Electronics & Communication / Control & Instrumentation or in a related discipline) Or NSQF level 3 certified in relevant job role with 2 years of relevant experience

Entry Age (Years): Minimum age: 18

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32

Supervisor – Operations & Maintenance (Compressed Biogas/Waste

to Energy) SGJ/Q0605 v1.0 NQR Code: [2022/WSSWM/SCGJ/05147](#)

DESCRIPTION

The Learner would supervises the team of Operations and Maintenance (O&M) technicians and maintains the operations of plant systems and equipment of a Compressed Biogas (CBG) plant to ensure smooth and profitable functioning of the business and streamlining the workflow.

Overview of Qualification

NSQF Level: 5

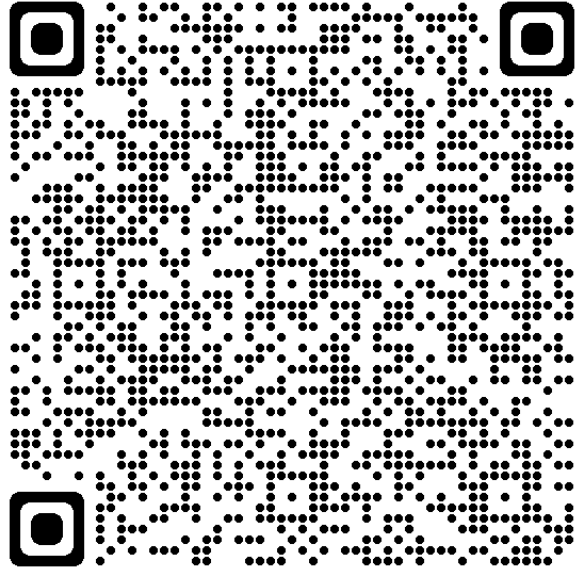
Course Duration/Training Hours: 500 hours including 400 Hours + 100 hours of Mandatory on the Job training

Trainee Qualification: Diploma (Government recognized 3 years Diploma (Electrical/ Mechanical/Civil/ Agriculture/ Electronics & Communication / Control & Instrumentation) with 2 Years of experience in relevant field OR Graduate; BE/BTech (Agriculture/ Environmental Engineering or equivalent) OR Post Graduate (MSc Environment Science or equivalent);MTech (Agriculture/ Environmental Engineering or Equivalent) OR Certificate-NSQF (Level- 4 Technician - O&M CBG/WTE) with 3 Years of experience

Entry Age (Years): Minimum age: 20

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33

Feedstock Manager - Procurement and Composition SGJ/Q0501 v1.0

NQR Code: [2022/WSSWM/SCGJ/05144](#)

DESCRIPTION

The Learner would analyze and manage the feedstock supply, standard and storage. S/he monitor resource mobilization and waste management, perform cost optimization and ensure compliance with Applicable Statutory Laws, Policies and Procedures.

Overview of Qualification

NSQF Level: 6

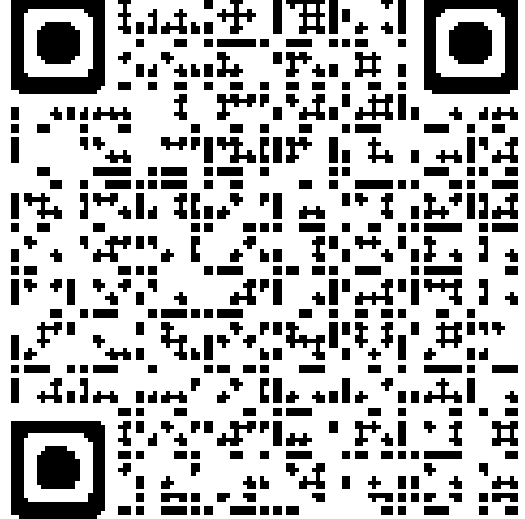
Course Duration/Training Hours: 600 hours

Trainee Qualification: Graduate with 3 Years of experience in the relevant field Or Diploma (Government recognized 3 years Diploma) with 4 Years of experience in the relevant field Or Supervisor – Operations and Maintenance(Compressed Biogas/Waste to Energy)- Level 5 with 3 years of relevant work experience

Entry Age (Years): Minimum age: 24

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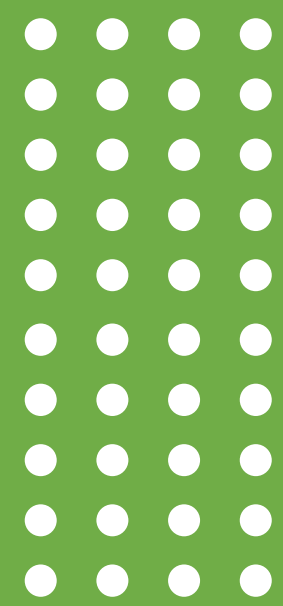




Qualifications (Skill Course)

# Biomass Management

Potential Job role



34

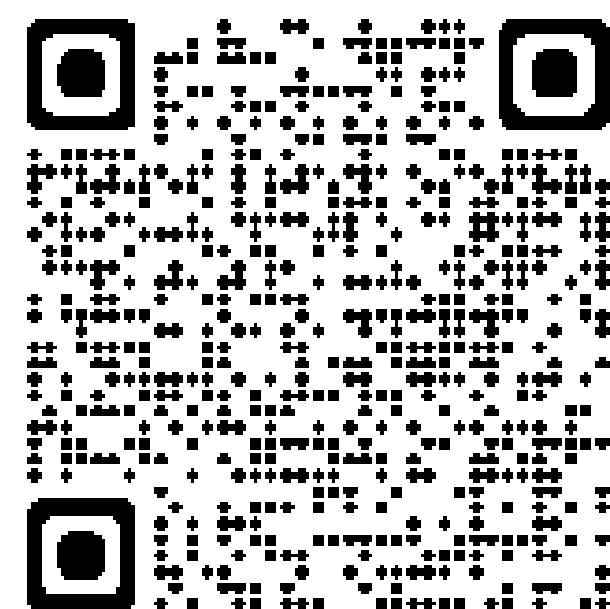
**Agri-residue Aggregator SGJ/Q6201 v2.0**

NQR Code: [2022/ES/SCGJ/06728](#)

## DESCRIPTION

The Learner 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 low density bales. S/he would also perform sale of the bales based on end requirements.

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## Overview of Qualification

**NSQF Level:** 3

**Course Duration/Training Hours:** 330

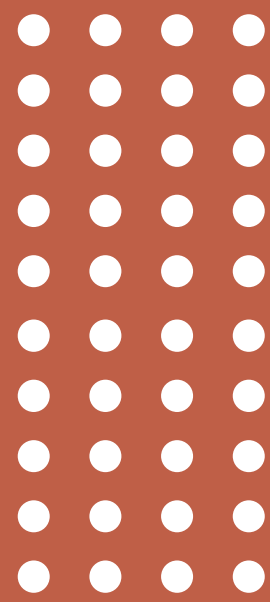
**Trainee Qualification:** 10th Pass or Ability to read and write with 5 years of relevant experience

**Entry Age (Years):** Minimum age: 16



Qualifications (Skill Course)

# Clean Cooking



35

## Improved Cookstove Installer SGJ/Q2101 v2.0

NQR Code: [2022/ES/SCGJ/06019](https://nqr.gov.in/2022/ES/SCGJ/06019)

### DESCRIPTION

The Learner 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.

### Overview of Qualification

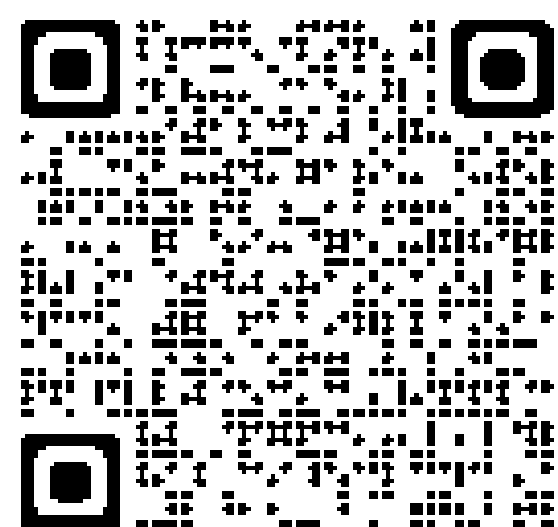
NSQF Level: 4

Course Duration/Training Hours: 390

**Trainee Qualification:** 10th pass with 2 years of experience or Certified Portable Improved Cookstove Assembler at NSQF level 3 with 1 year of relevant work experience

**Entry Age (Years):** Minimum age: 16

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36

## Portable Improved Cookstove Assembler SGJ/Q2102 v2.0

NQR Code: [2022/ES/SCGJ/06018](https://nqr.gov.in/2022/ES/SCGJ/06018)

### DESCRIPTION

The Learner would 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.

### Overview of Qualification

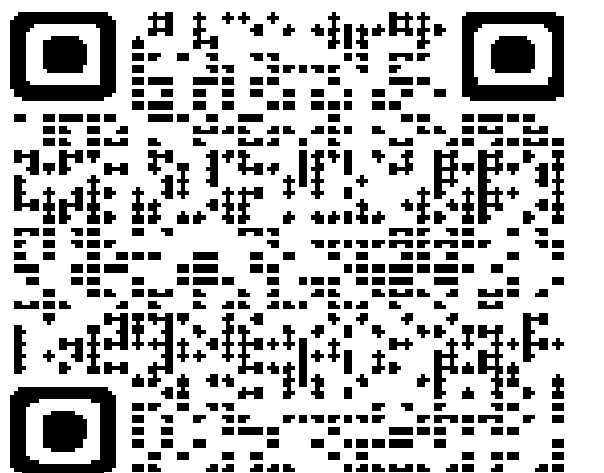
NSQF Level: 3

Course Duration/Training Hours: 330

**Trainee Qualification:** Ability to read and write with 5 years of experience

**Entry Age (Years):** Minimum age: 16

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37

## Clean Cookstove Sales and Maintenance Executive SGJ/Q2104 v2.0

NQR Code: [2022/ES/SCGJ/06020](#)

DESCRIPTION

The Learner would be able to identify 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. S/he recognize 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.

Overview of Qualification

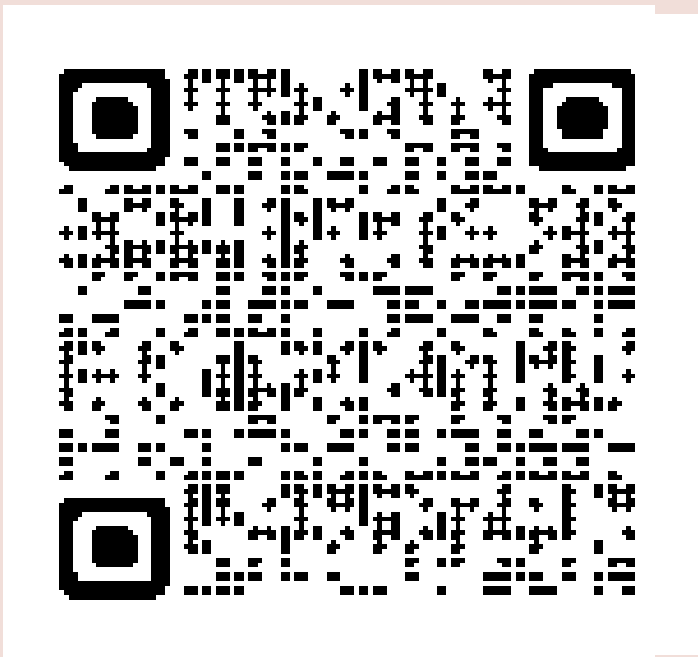
NSQF Level: 4

Course Duration/Training Hours: 390

**Trainee Qualification:** 10th Pass with 2 years of relevant experience or Certified Portable Improved Cookstove Assembler at NSQF level 3 with 1 year of relevant work experience

**Entry Age (Years):** Minimum age: 16

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38

## Clean Cookstove Distributor SGJ/Q2105 v2.0

NQR Code: [2022/ES/SCGJ/06021](#)

DESCRIPTION

The Learner would be able to increase market share of 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. S/he would ensure statutory compliances and safety in operations.

Overview of Qualification

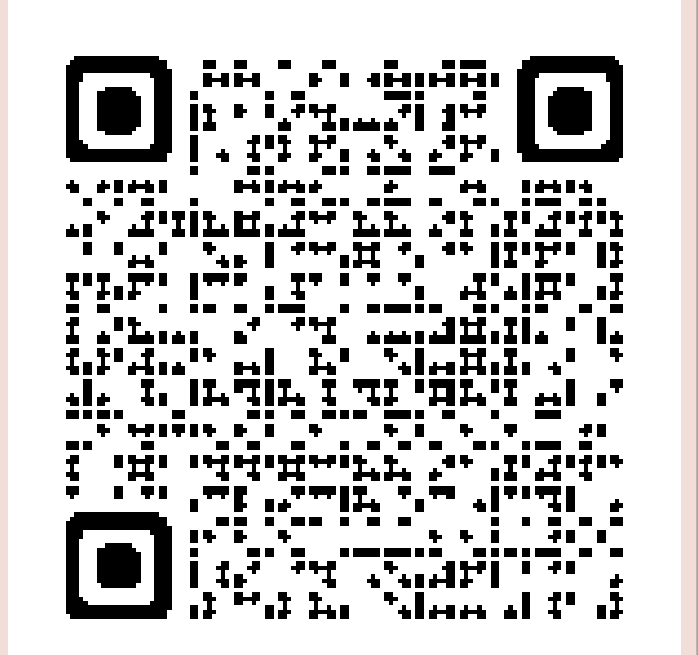
NSQF Level: 5

Course Duration/Training Hours: 480

**Trainee Qualification:** 12th Pass with 4 years of relevant experience/ Certified Clean Cookstove Sales and Maintenance Executive at NSQF level 4 with 2 years of relevant work experience/ Certified Improved Cookstove Installer at NSQF level 4 with 1 years of relevant work experience/ BBA with no experience/ Any graduate with 1 year of experience

**Entry Age (Years):** Minimum age: 18

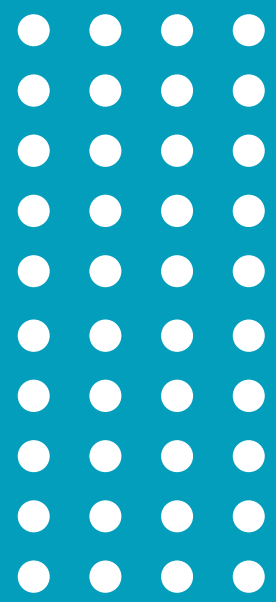
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Qualifications (Skill Course)

# Waste water Management



39

## Wastewater treatment plant technician SGJ/Q6601 v2.0

NQR Code: [2021/WSSWM/SCGJ/04274](https://www.wsswm.govt.nz/2021/WSSWM/SCGJ/04274)

### DESCRIPTION

The Learner 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.

### Overview of Qualification

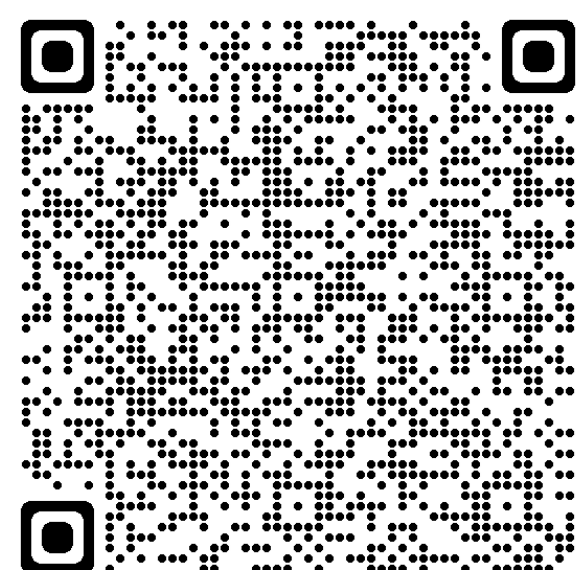
NSQF Level: 4

Course Duration/Training Hours: 200

**Trainee Qualification:** 12th Pass, 10th Pass + ITI/Diploma, 8th pass + 4 years of experience as Wastewater Treatment Plant Helper

**Entry Age (Years):** Minimum age: 18

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40

## Wastewater treatment plant Helper SGJ/Q6602 v2.0

NQR Code: [2021/WSSWM/SCGJ/04275](https://www.wsswm.govt.nz/2021/WSSWM/SCGJ/04275)

### DESCRIPTION

Learner 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.

### Overview of Qualification

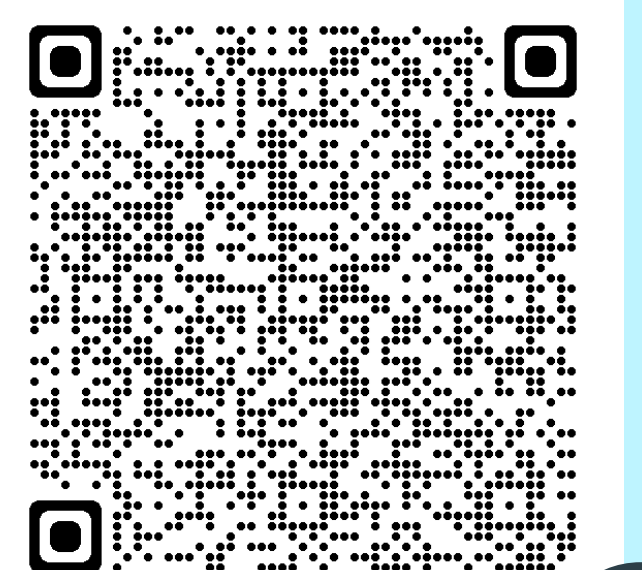
NSQF Level: 3

Course Duration/Training Hours: 160

**Trainee Qualification:** 8<sup>th</sup> pass

**Entry Age (Years):** Minimum age: 18

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DESCRIPTION

The Learner would be able to excavate, fabricate and install fixed septic tanks as per as per Central Public Health and Environmental Engineering Organization(CPHEEO) norms. S/he also able to install prefabricated septic tanks at the site(commercial/institutional/residential). He/ She also undertake the work of repair and maintenance of existing septic tanks.

Overview of Qualification

NSQF Level: 3

Course Duration/Training Hours: 390

Trainee Qualification: 5th Pass, Minimum experience of 3 year in masonry work

Entry Age (Years): Minimum age: 18

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DESCRIPTION

The Learner would carry out day-to-day operations of the FSTP. He /She would be able to identify repair and maintenance tools and equipment at FSTP and responsible for routine maintenance of pumps, engines, motors, filters, bar screens, valves, pipes, and any other equipment used in FSTP.

Overview of Qualification

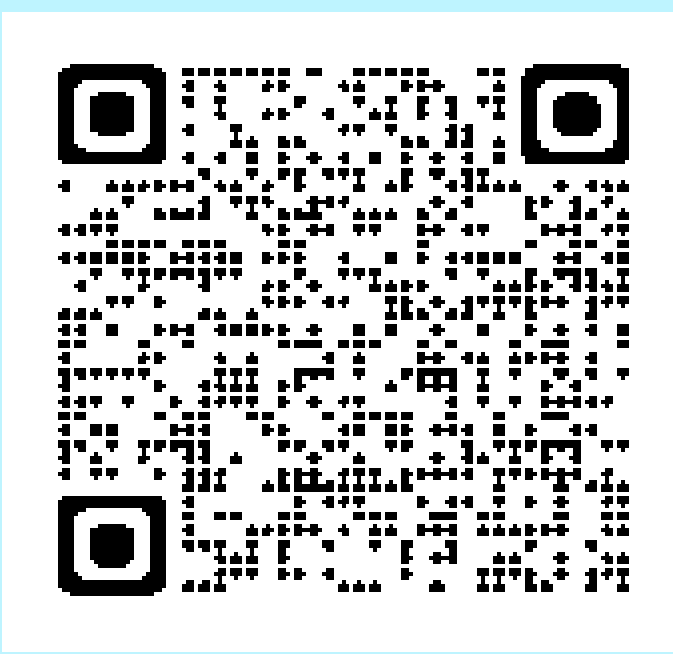
NSQF Level: 4

Course Duration/Training Hours: 420

Trainee Qualification: ITI or Equivalent

Entry Age (Years): Minimum age: 18

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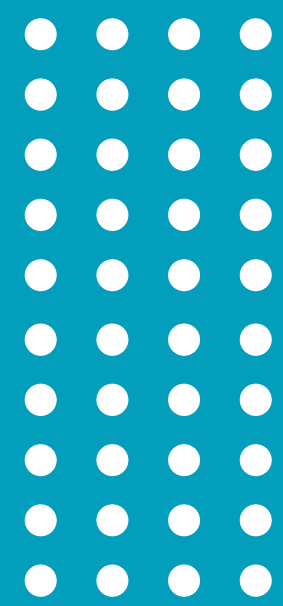




Qualifications (Skill Course)

# Waste water Management

Potential Job role



43

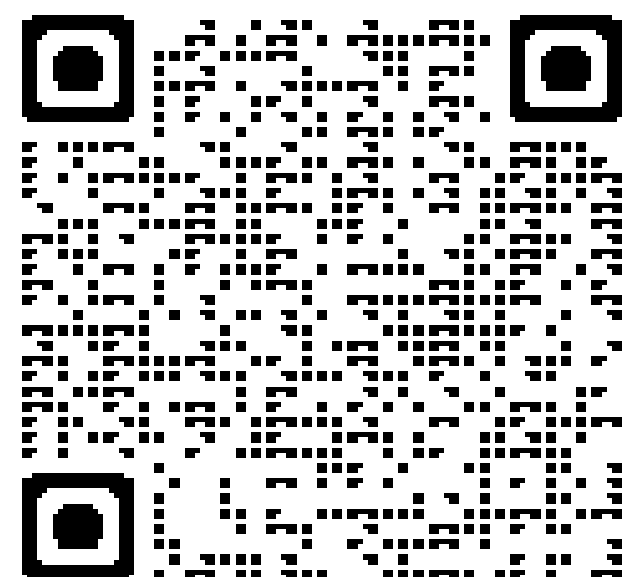
## Desludging Operator SGJ/Q6403 v2.0

NQR Code: [2022/ES/SCGJ/06731](#)

### DESCRIPTION

The Learner would be able to empty, transport and dispose faecal sludge from the septic tank to desludging site / Faecal Sludge Treatment Plant. He /She would demonstrate preventive maintenance and operate pumps, suction hoses and other machinery/equipment to empty the septic tank and appropriately dispose the sludge. As an entrepreneur he/she would venture into desludging services for managing Faecal Sludge.

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### Overview of Qualification

NSQF Level: 3

Course Duration/Training Hours: 360

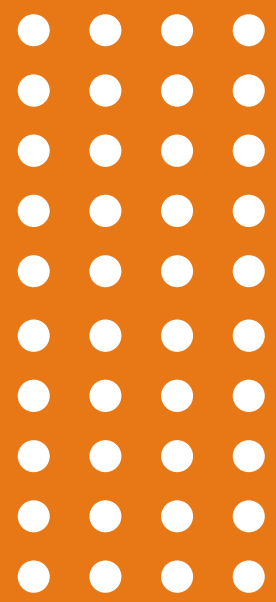
Trainee Qualification: 5<sup>th</sup> Pass

Entry Age (Years): Minimum age: 18



Qualifications (Skill Course)

# Sustainable Practices



44

## Technician-Paper Bag Manufacturing SGJ/Q8701 v1.0

NQR Code: [2022/ES/SCGJ/06405](#)

### DESCRIPTION

The Learner would make eyelets and fix the handle or paste paper twisted rope handle to manufacture the final product and suitably pack the finished product for dispatch to the customer. S/he would follow applicable safety standards and improve soft skills.

### Overview of Qualification

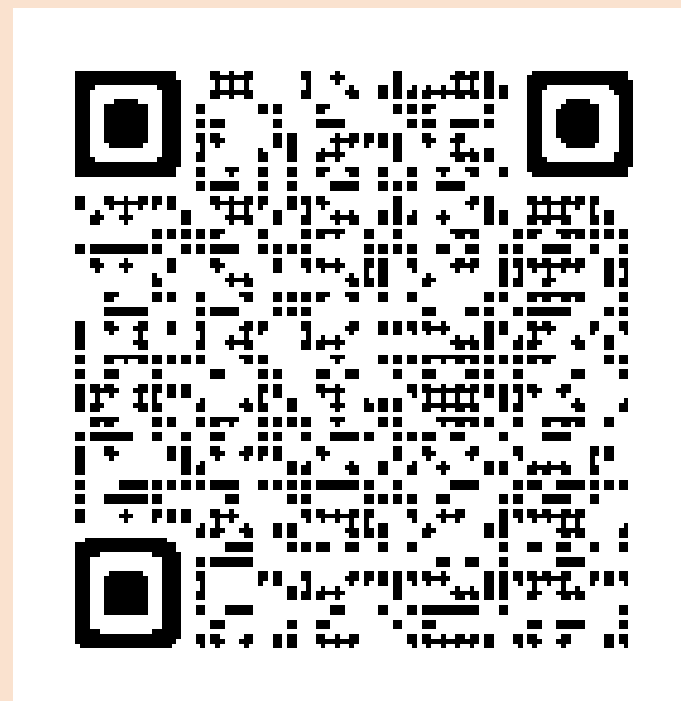
NSQF Level: 3

Course Duration/Training Hours: 360

Trainee Qualification: Ability to read and write

Entry Age (Years): Minimum age: 16

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to access related content



45

## Paper Bag Maker SGJ/Q8702 v1

NQR Code: [2022/ES/SCGJ/06406](#)

### DESCRIPTION

The Learner would source and use different kind of papers as per client requirement and sell paper bags through different channels. S/he ensures compliance with statutory requirements for setting up of the production unit. S/he develop Entrepreneurship skills to acquire requisite infrastructure/land. S/he is also responsible for overall management, recruitment and sustenance of the business.

### Overview of Qualification

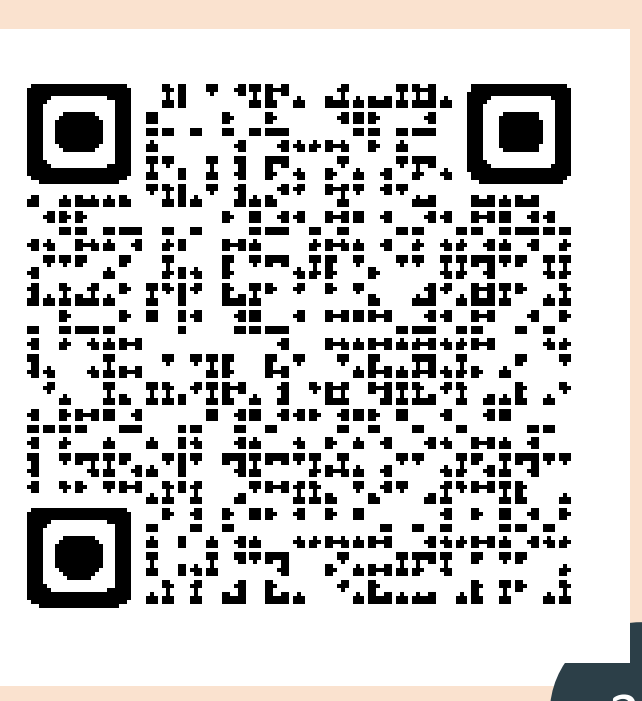
NSQF Level: 5

Course Duration/Training Hours: 420

Trainee Qualification: 8th Pass with 2 Years ITI program or 10th Class or Certified Paper Bag Technician with 3-5 Years of experience

Entry Age (Years): Minimum age: 18

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46

**Junior Technician - Solar Cold Storage/Q4002**NQR Code: [2022/ES/SCGJ/06459](https://www.nqr.gov.sg/nqr/2022/ES/SCGJ/06459)**DESCRIPTION**

Junior Technician-Solar Cold Storage performs installation along with operations and maintenance (O&M) of a solar cold storage/cold room solution while meeting the performance and reliability needs of customers by incorporating quality craftsmanship and complying with all applicable industry standards, quality and safety requirements.

**Overview of Qualification**

NSQF Level: 3

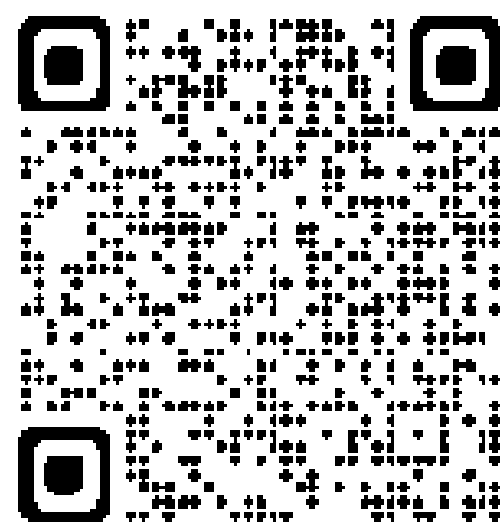
Course Duration/Training Hours: 330

Trainee Qualification: 8th Class Pass + NTC (2 years)

Entry Age (Years): Minimum age: 16

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to access related content



47

**Solar Cold Storage Entrepreneur SGJ/Q1802**NQR Code: [2022/ES/SCGJ/06460](https://www.nqr.gov.sg/nqr/2022/ES/SCGJ/06460)**DESCRIPTION**

Solar Cold Storage Entrepreneur sets up an enterprise with an aim to provide a service (to Farmers/FPOs etc) for storing perishable agricultural and horticultural produce for increasing their shelf life and realise better price of the produce. This entrepreneur shall use an innovative solar based cold storage solution that can also be powered through the Grid and has thermal energy storage for providing backup during non-sunny hours.

**Overview of Qualification**

NSQF Level: 4

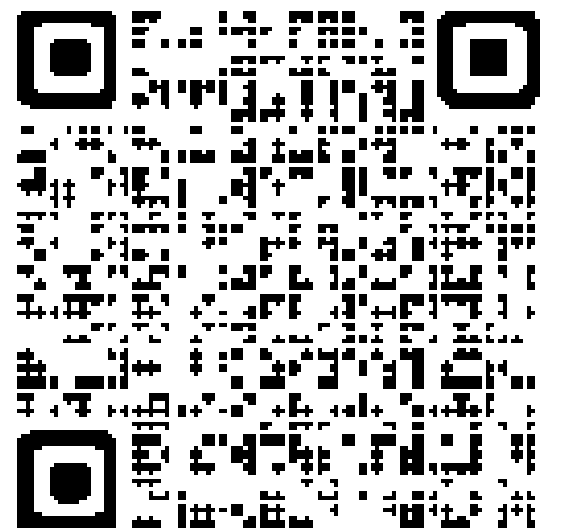
Course Duration/Training Hours: 390

Trainee Qualification: 10th pass

Entry Age (Years): Minimum age: 16

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48

**Junior Technician - Rooftop Rainwater Harvesting SGJ/Q4003 v1.0**NQR Code: [2022/POW/SCGJ/06463](https://www.nqr.gov.sg/nqr/2022/POW/SCGJ/06463)**DESCRIPTION**

The individual at work is responsible for performing site survey, and installation of rainwater harvesting systems across different consumer categories/buildings types. The individual will also be responsible for routine maintenance of rainwater harvesting systems.

**Overview of Qualification**

NSQF Level: 3

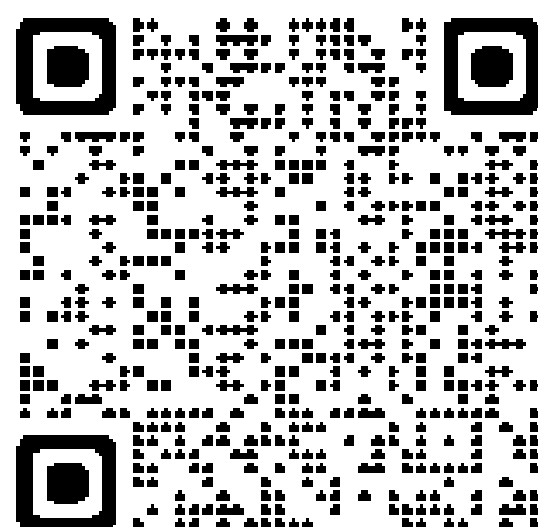
Course Duration/Training Hours: 330 hours

Trainee Qualification: 8th Class Pass + NTC (2 years) OR Class 10th Pass OR Previous relevant Qualification of NSQF Level 2, with 2 years of relevant experience

Entry Age (Years): Minimum age: 16

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49

**Rooftop Rain Water Harvesting Entrepreneur SGJ/Q4101**NQR Code: [2022/ES/SCGJ/06464](https://www.nqr.gov.sg/nqr/2022/ES/SCGJ/06464)**DESCRIPTION**

Rooftop Rainwater Harvesting Entrepreneur shall analyse key parameters for rain water harvesting system, estimate cost parameters and oversee its installation and maintenance.

**Overview of Qualification**

NSQF Level: 4

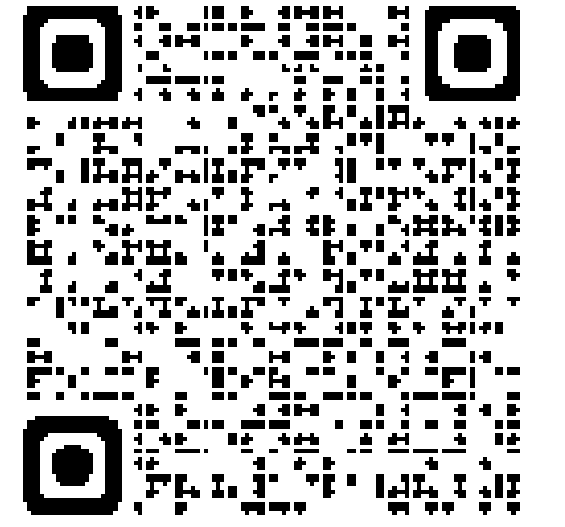
Course Duration/Training Hours: 420

Trainee Qualification: 10th Class Pass + NTC (1 year after Class 10th), with 1 year of relevant experience

Entry Age (Years): Minimum age: 16

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to access related content





50

Green Hydrogen Plant Technician SGJ/Q0120

NQR Code: : [QG-04-ES-00146-2023-V1-SCGJ](#)

DESCRIPTION

Green Hydrogen Plant Technician shall perform testing, installation and facility integration of electrolyser, repairs, troubleshooting, upkeep and maintenance of electrical control systems, protection systems, and other auxiliary equipment and associated tools in Green hydrogen generation facilities.

Overview of Qualification

NSQF Level: 4

Course Duration/Training Hours: 420

Trainee Qualification: Not Applicable

Entry Age (Years): Minimum age: 18

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to access related content



51

Green Hydrogen Plant Entrepreneur SGJ/Q0121

NQR Code: [QG-05-ES-00145-2023-V1-SCGJ](#)

DESCRIPTION

Green Hydrogen Plant Entrepreneur would identify the potential market and the client needs/ requirements to propose the right kind of technically and economically feasible solution to set up green hydrogen plant. He/she is also expected to undertake specific works/sub component installations of a green hydrogen plant.

Overview of Qualification

NSQF Level: 5

Course Duration/Training Hours: 480

Trainee Qualification: 10th pass

Entry Age (Years): Minimum age: 18

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52

Junior Technician-Solar EV Charging Station SGJ/Q4001

NQR Code: [2022/POW/SCGJ/06461](#)

DESCRIPTION

Junior Technician- Solar EV charging station performs tasks while ensuring safety, quality and good workmanship for installation, usage along with O&M of solar powered Electric Vehicle (EV) charging station as per standard industry practices.

Overview of Qualification

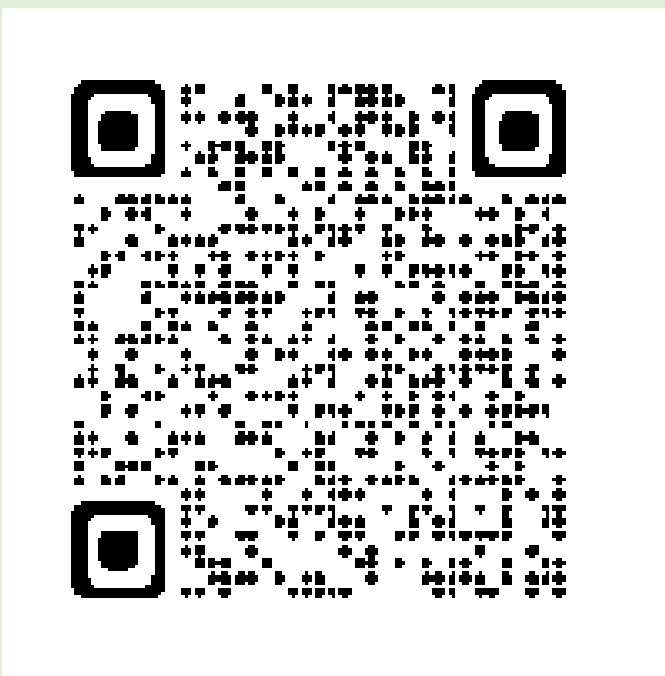
NSQF Level: 3

Course Duration/Training Hours: 330 hours

Trainee Qualification: 8th Class Pass + NTC (2 years)

Entry Age (Years): Minimum age: 16

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53

Solar EV Charging Entrepreneur SGJ/Q1801

NQR Code: [2022/ES/SCGJ/06462](#)

DESCRIPTION

Solar EV Charging Entrepreneur sets up an enterprise with an aim to provide a charging service to EV users while utilising solar energy (along with Grid power). This entrepreneur shall establish, setup and operate solar integrated EV charging stations for charging of electric vehicles at various locations to enable faster adoption of EVs across the country by ensuring safe, reliable, accessible, low cost and sustainable EV charging infrastructure.

Overview of Qualification

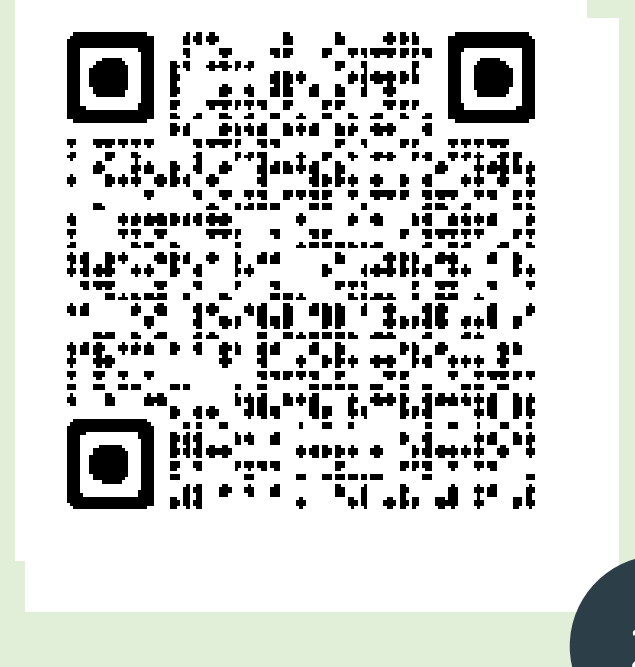
NSQF Level: 4

Course Duration/Training Hours: 390

Trainee Qualification: 10th Pass with 2 years of experience  
or NSQF Level 3 certified Agri Residue Aggregator with 1 year of suitable experience

Entry Age (Years): Minimum age: 16

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# SCGJ e-learning Management System (SEMS) | [www.sems.training](http://www.sems.training)

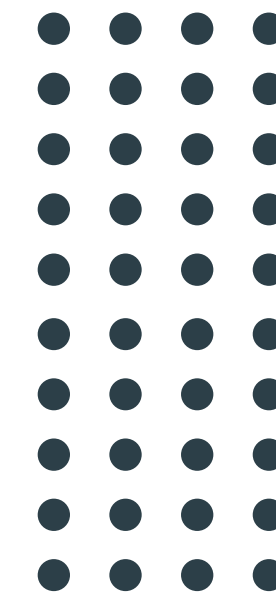
An initiative of Skill Council for Green Jobs to facilitate online skill activities in the Green Jobs sector by aggregating all its partners on a single digital platform and then making learning activities accessible to all candidates across India.

*Build skills with online training & certificates from experts in green energy sector.*

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## Key Highlights

01

### Online Trainings

Dedicated portal to put information about your online trainings supported by SCGJ. TPs can spread awareness about innovative e-learning initiatives (webinars etc.)

02

### Candidate Mobilization

Option for candidates to register in your e-learning activities from SEMS portal. Candidates can view Training partner details (website) before registering.

03

### MCQ Tests

Feature for TPs to create online MCQ test for each e-learning activity. Option for candidates to attempt assessment test and view their result.

04

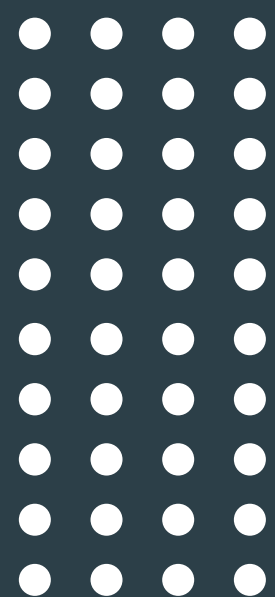
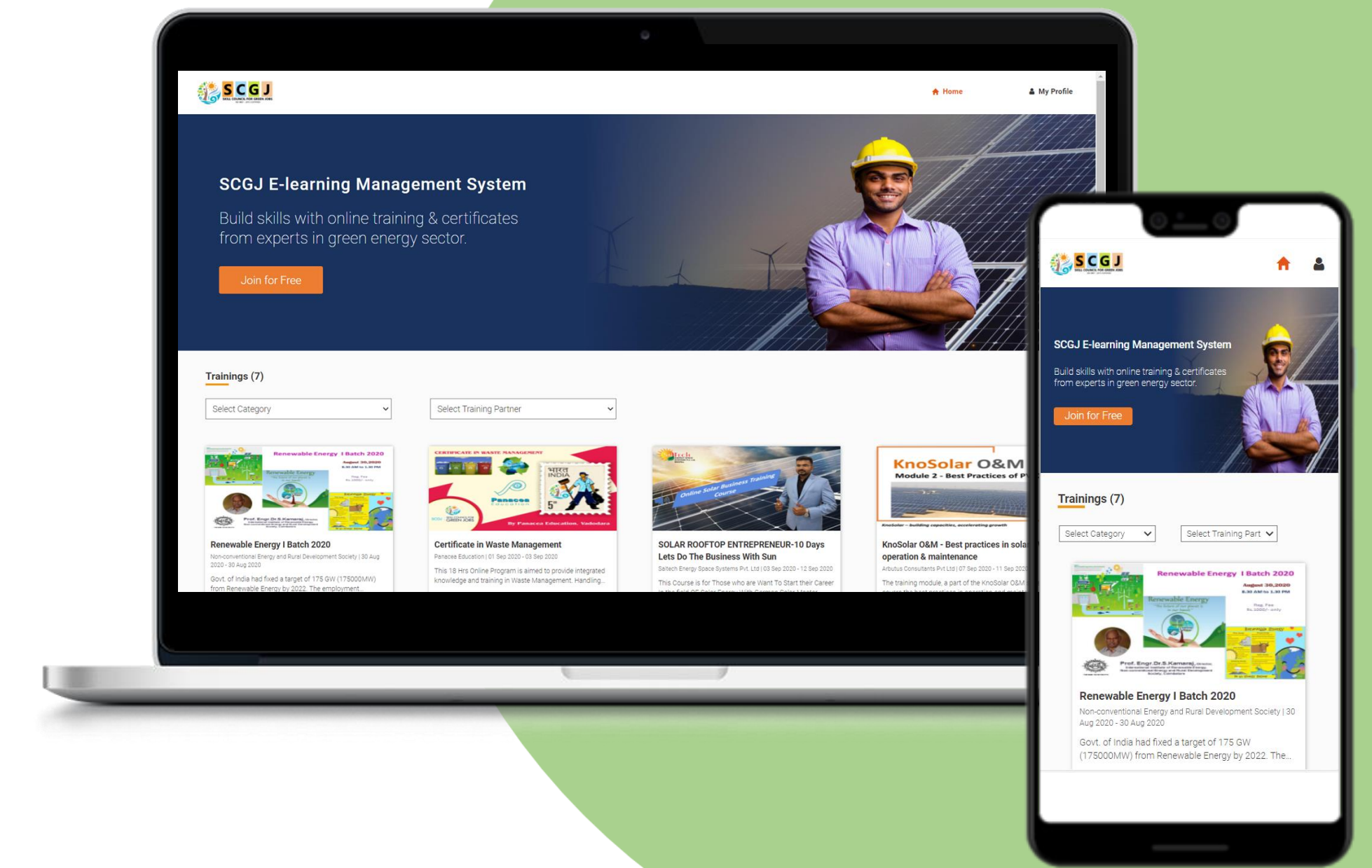
### Online Training Certificate

Instant certification generation for candidates who clear assessment. Study resources related to e-training can be made accessible to students.

05

### Communication Interface

Interface to interact with SCGJ for all TOT programs conducted online. Personalized TP Dashboard to monitor self performance.





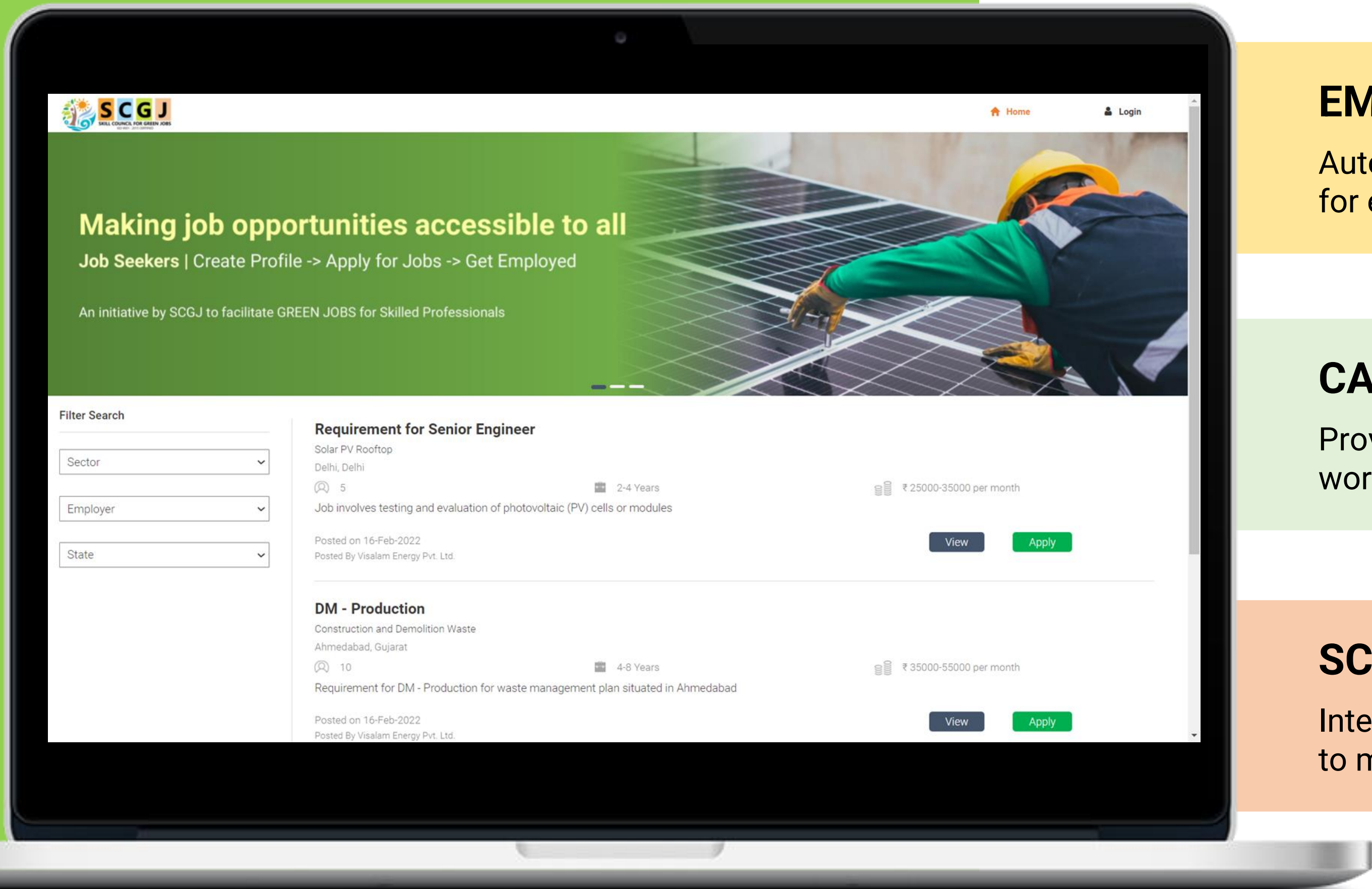
# SCGJ Rozgar Portal | [www.scgjrozgar.in](http://www.scgjrozgar.in)

Skill Council for Green Job’s Rozgar Portal is a unique technology intervention which makes job opportunities for skilled professional in green energy sector accessible by connecting them with coveted employers across India.

This technologically advanced solution is the brainchild of Skill Council for Green Jobs, which automates the entire talent acquisition process for employers, provides job opportunities to skilled workforce and help SCGJ make necessary interventions in Skill development activities to meet industry needs.

Rozgar Portal will support SCGJ mission to provide **10 Lakhs Jobs by 2030**

Scan QR Code to visit Rozgar Portal



## EMPLOYER

Automates talent acquisition process for employers



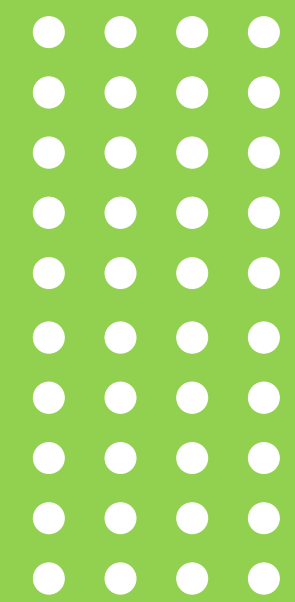
## CANDIDATE

Provides job opportunities to skilled workforce in green energy sector



## SCGJ ADMIN

Interventions in skill development activities to meet industry needs







## Skill Council for Green Jobs

3rd Floor, CBIP Building, Malcha Marg,  
Chanakyapuri, New Delhi - 110021

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