

Course Information and Policies

Stand Alone Power Systems – Design and Install

We at GSES send you a warm welcome and thank you for choosing us.

This document contains important information about your course and relevant GSES policies. Please contact the GSES office on 02 9024 5312 if you have any questions or concerns regarding the content.

1 Course Details

The Stand Alone Power Systems Design and Install course is available in three variants, termed “Fast Track” “GCPV Accredited” and “Full Course” in this document. You will enrol in only one of these streams, so please ensure you refer to the correct sections.

1.1 Prerequisites

An electrical licence is a prerequisite for enrolment in this course. Electrical apprentices may enrol in this course, however they will need to show they have completed the prerequisite Units of Competency (UEENEE104A, UEENEE137A, and UEENEE108A or UEENEEG106A) in their studies already OR wait till they are issued their unrestricted licence before being awarded a Statement of Attainment.

1.1.1 Full Course

There are no additional prerequisites for this course variant.

1.1.2 GCPV Accredited

This course variant builds on the knowledge of the Grid-Connected PV Systems Design and Install course, so a prerequisite for enrolment is a Statement of Attainment in the following Units of Competency:

- UEENEEK125A: Solve basic problems in photovoltaic energy apparatus and systems
- UEENEEK135A: Design grid connected photovoltaic power supply systems
- UEENEEK148A: Install, configure and commission LV grid connected photovoltaic power systems

1.1.3 Fast Track

This course variant builds on the knowledge of the Grid-Connected PV Systems Design and Install course and the Grid-Connected PV with Batteries Design and Install course, so a prerequisite for enrolment is a Statement of Attainment in the following Units of Competency:

- UEENEEK125A: Solve basic problems in photovoltaic energy apparatus and systems
- UEENEEK135A: Design grid connected photovoltaic power supply systems
- UEENEEK148A: Install, configure and commission LV grid connected photovoltaic power systems
- UEERE4001: Install, maintain and fault find battery storage systems for grid-connected photovoltaic systems
- UEERE5001: Design battery storage systems for grid-connected photovoltaic systems

1.2 Training Outcome

Successful completion of this Stand Alone Power Systems Design and Install course will result in the award of a Statement of Attainment in the current version of the following Units of Competency:

- UEENEEK123A: Carry out basic repairs to renewable energy apparatus
- UEENEEK125A: Solve basic problems in photovoltaic energy apparatus and systems
- UEENEEK128A: Solve problems in stand-alone renewable energy systems
- UEENEEK134A: Install ELV stand-alone photovoltaic power systems
- UEENEEK139A: Design stand-alone renewable energy (RE) systems

Upon successful completion of the course, students will be eligible to apply to the Clean Energy Council of Australia for the Design & Installation of Stand-alone Power Systems Accreditation. The Clean Energy Council has information on their website indicating their requirements to apply a Clean Energy Council Accreditation: www.cleanenergycouncil.org.au/industry/installers/accreditation-process.

Note that GSES cannot guarantee successful completion of this course, which is dependent on the effort of the individual student. GSES assesses the Language, Literacy and Numeracy skills of students upon enrolment and may offer a refund to students whose results are below the levels recommended for successful completion of the course. GSES does not provide entry level Vocational Education Training (VET) sector training.

When your course is completed, and all requirements have been met including identity verification, licensing verification and Unique Student Identifier (USI) as required by the Australian Government, you will be issued with certification within 14 days.

1.3 Delivery Method and Duration

This course uses two delivery methods: online theory completed at students' own pace and the face-to-face component held at a GSES Training Facility. Both components must be successfully completed to receive a Statement of Attainment. Fast Track students need attend only one 3-day practical training session, while GCPV Accredited students must attend two separate 3-day practical training sessions, and Full Course students must attend three separate 3-day practical sessions.

The time to complete the online component will differ between students. This work may be completed at any time during the student's enrolment period, which is valid for 12 months, but some of the assessments must be completed **before** booking or attending the face-to-face component.

GSES has a team of tutors who mark the online work and as necessary supply feedback or additional technical information to the students. GSES's tutors are also available to be contacted by phone (02 9024 5312) during business hours or email (tutor@gses.com.au). For the face-to-face component, students will work in small groups and individually. One trainer is assigned to a maximum of ten students for practical activities to ensure focused time with the trainers for any additional questions or advice.

1.3.1 First Face-to-Face Practical (Full Course Only)

The First Face-to-Face Practical component applies only to students enrolled in the Full Course variant. It covers theory relating to the design and installation of PV systems, and may be run in conjunction with a

Grid-Connected PV Systems 3-day practical component. Students of the Full Course can book their place in the First Face-to-Face Practical after approximately **20% of the online assessments** (up to and including “PV Array Efficiency and Output”) are completed.

1.3.2 Second Face-to-Face Practical (GCPV Accredited and Full Course)

The Second Face-to-Face Practical component applies only to students enrolled in the Full Course and GCPV Accredited variants. It covers theory relating to the design and installation of battery storage, and may be run in conjunction with a Grid-Connected PV with Batteries 3-day practical component. Students of the Full Course or GCPV Accredited variants can book their place in the Second Face-to-Face Practical after approximately **40% of the online assessments** (up to and including “Energy Storage”) are completed. Students of the Full Course can only attend this practical component after attending the First Face-to-Face Practical.

1.3.3 Final Face-to-Face Practical (all variants)

The Final Face-to-Face Practical component applies to students enrolled in all course variants. Students of can book their place in the Final Face-to-Face Practical after approximately **80% of the online assessments** (up to and including “System Wiring and Protection”) are completed. Students of the Full Course or GCPV Accredited variants can only attend this practical component after attending the Second Face-to-Face Practical.

1.4 Materials and Equipment

Students are supplied with a copy of the GSES publication *Stand Alone Power Systems: Design and Installation 8th Edition* as part of enrolment; the cost of the publication and shipping is included in the course price.

Students will require a current copy of the following standards:

- AS/NZS 5033 - Photovoltaic arrays
- AS/NZS 4777.1 - Grid connection of energy systems via inverters
- AS/NZS 4509.1 - Stand Alone Power Systems - Safety and installation
- AS/NZS 4509.2 - Stand Alone Power Systems - System design
- AS/NZS 3010 - Electrical installations - Generating sets

These are not supplied by GSES; they can be purchased from the Techstreet or SAI Global websites (www.techstreet.com or infostore.saiglobal.com/store) and are available at some local libraries. TAFE students or members of NECA or Master Electricians may be able to access the standards through their respective institutions.

It is assumed that the student will, as a licenced electrician, have and be familiar with current copies of the following:

- AS/NZS 3000 - Wiring Rules
- AS/NZS 3008.1.1 - Electrical installations - Selection of cables

The following standards are not required, but are recommended reading:

- AS/NZS 2676.1 - Guide to the installation, maintenance, testing and replacement of secondary batteries in buildings - Part 1: Vented cells
- AS/NZS 2676.2 - Guide to the installation, maintenance, testing and replacement of secondary batteries in buildings - Part 2: Sealed cells
- AS/NZS 3011.1 - Electrical installations - Secondary batteries installed in buildings - Part 1: Vented cells
- AS/NZS 3011.2 - Electrical installations - Secondary batteries installed in buildings - Part 2: Sealed cells
- AS/NZS 3017 - Electrical installations - Verification guidelines
- AS/NZS 3100 - Approval and test specification – General requirements for electrical equipment

Due to the online nature of the course platform, students will require access to a computer and the Internet in order to complete the course. Students will also need a scientific calculator, and access to Microsoft Excel or OpenOffice Calc (freeware) spreadsheet program is recommended.

2 Student Rights and Responsibilities

2.1 Code of Practice

As a registered training organisation (RTO) GSES complies with the Standards set out by the regulator, the Australian Skills Quality Authority (ASQA), for Vocational Education Training (VET).

GSES will inform students within 30 days of any changes to services provided to them. This includes any changes to education and support services, any change in the RTO ownership or to third party arrangements.

GSES does not countenance discrimination of any kind in the workplace. We wish to provide a safe and comfortable place of work.

2.2 Behaviour

GSES maintains an adult workplace. We do not countenance any behaviour that is contrary to safe work practice. We do not countenance inappropriate language in all forms of communication. GSES asks that all persons treat others with respect.

2.2.1 Cheating and plagiarism

Cheating will not be tolerated. If detected, sanctions may be implemented at the discretion of GSES.

Students are required to ensure that all responses and/or work they submit is their own work. Any referenced material should be annotated as to its origin. Sanctions may be implemented at the discretion of GSES if plagiarism or fraud is detected, including revocation of certification.

2.3 Complaints and Appeals

GSES has a policy of treating all complaints quickly and professionally. GSES welcomes your feedback.

We ask that you seek to resolve any issue with the GSES staff person who is providing the service. If you are unsure with whom you need to raise your issue, please:

- Call 02 9024 5312
- Write to GSES, PO Box 614 Botany, NSW, 1455
- Email training@gses.com.au

We will attempt to resolve your complaint within 10 working days.

2.3.1 General complaints and further appeals

If you cannot resolve the complaint informally with a staff member, you may lodge the complaint in writing with the RTO Chief Executive Officer (CEO) at gses@bigpond.com. With your permission the CEO or senior manager will respond in writing within 10 working days. GSES may use mediation and conciliation to resolve the complaint.

2.3.2 Complaints and appeals of training and assessments

All GSES course participants have the right to appeal the results they obtain in assessments and examinations. The appeal should be sent in writing to the RTO Chief Executive Officer (CEO) at gses@bigpond.com who will review the result and respond in writing. GSES may use mediation and conciliation to resolve the complaint. Students also have the right to engage a suitably qualified independent assessor.

2.4 Student Records

Your records are accessible in your online course. GSES urges you to keep copies of all your work until the course is completed and certificate issued.

In the unlikely event that GSES ceases to deliver training services, all current student records will be transferred to ASQA, who can organise completion of the Units of Competency with another RTO.

3 Cancellation and Refunds

Cancellation of online training courses will be subject to the following conditions:

- If the student's Learning, Literacy and Numeracy (LLN) levels are determined by GSES to be below the standard required to complete the coursework successfully, and the student has not yet submitted coursework for assessment, GSES may offer a full refund of the online course material and practical training component. If the student then opts to continue with the course, the standard cancellation and refund policy applies.
- Cancellation of online training courses made *within fourteen (14) days* of the date of payment **AND before the online course has been accessed**: the student will receive a full refund of the online course payment.

- Cancellation of online training courses made *within fourteen (14) days* of the date of payment **AND after the online course has been accessed AND before any coursework has been submitted for assessment**: the student will receive a refund of the online course payment **less a cancellation fee of \$440 inc GST**, unless the value of the course is lower than this, in which case the student will receive *no* refund.
- Cancellation *more than fourteen (14) days* after the date of payment **OR after the first coursework (i.e. the Workplace Health & Safety Assessment) is submitted for assessment** (whichever occurs first): the student will receive *no* refund.
- All course refunds are **exclusive** of the price of the supplied course publication as advertised at the time of enrolment, unless the publication is returned to GSES in an undamaged and unused condition. GSES reserves the right to refuse a refund of the publication on the basis that goods are damaged or have been used prior to return.
- The cost of an online training course is **inclusive** of the Practical Training Component (if applicable), as are course refunds.

3.1 Practical Training Component

The confirmed date for a Practical Training Component is only available once a student has completed the necessary online assessments, used the Moodle-provided link to select a date, and received a confirmation email from GSES. GSES may cancel a scheduled practical session at any time fourteen (14) days or more prior to the starting date: any students enrolled in the cancelled practical will be transferred to another session of their choice. For GCPV Accredited and Full Course variants, each 3-day practical session needs to be booked separately, unless otherwise advised by the GSES office.

A student may change the date of their Practical Training Component fourteen (14) days or more prior to the starting date of the Practical Training Component. Changing the date of any GSES Practical Training Component less than 14 days prior to the scheduled start date will incur an admin fee of \$192.50 inc GST.

3.2 Course Validity

Courses are valid for twelve (12) months from the date on which enrolment is finalised, therefore the course must be completed within the expiry date given at the time of enrolment. If any extensions are required after the course expiry date, an administration fee of \$137.50 inc GST per month will be incurred to extend the course. Extension fees apply from the date of expiry, and the maximum extension permitted is six (6) months from the date of expiry. After this time (i.e. eighteen (18) months from enrolment), students must be re-enrolled into a new course if intending to continue. Standard enrolment fees will apply in this situation, and Recognition of Prior Learning (RPL) may be available for an additional fee.

If a cancellation/extension/change of date is required, please email or telephone GSES at training@gses.com.au or 02 9024 5312.

4 Recognition of Prior Learning (RPL)

In accordance with the Australian Quality Framework, GSES is committed to providing a quality recognition process to all students that is:

- Fair
- Flexible
- Reliable
- Valid

GSES will on request engage in a recognition of prior learning evaluation. GSES does not offer entry level VET sector training.

GSES will ensure that an individual's learning and skills are recognised irrespective of how or where they have been acquired. This policy, therefore, recognises that prior study together with work and life experiences may have provided the participant (subject to the provision of suitable evidence) with competence in the outcomes prescribed in a curriculum or Training Package.

Skills recognition assessments and outcomes will be recorded, and Statements of Attainment will be issued to the participant where applicable and appropriate.

4.1 RPL Procedure

If a Unit of Competency (UOC) has been completed as part of an earlier taught course, that UOC will be evaluated to determine if there are any gaps in the previous training and any required training will be provided as part of a higher level or new course.

Should the participant seek RPL, an appropriately skilled staff member will assess the participant's competence against the performance criteria or learning outcomes of the unit or session.

GSES advocates a consultative approach to assessing both prior and current competencies through planning, implementing and evaluating the process.

Participants who are dissatisfied with the outcome of a recognition process are able to lodge an appeal through GSES's Customer Complaints and Appeals process, and participant feedback regarding the recognition process is used as a valuable mechanism to continually improve the process.

If competence is established a Statement of Attainment will be issued, and the student must provide USI and AVETMISS information.

Where competence is not established, the applicant will be informed on the training solution that can be offered to prove this competence.

4.2 Cost of RPL

Fees for RPL evaluation will vary based on the extent of assessment and administrative services required. A simple credit transfer will typically incur a once-off administration fee, while a full RPL procedure may be billed at an hourly rate.

4.3 SAPS-Specific RPL

4.3.1 GCPV Accredited

The GCPV Accredited course variant has training and assessment specific to UEENEEK125A removed, as students of this variant are already deemed competent in this unit. RPL for some components of UEENEEK135A and UEENEEK148A, which are prerequisites for enrolling in this variant, has also been applied to part of the course. By providing evidence of their completion of these units, students are granted this RPL automatically at no cost, and do not need to apply separately for RPL based on UEENEEK125A, UEENEEK135A or UEENEEK148A if they have enrolled in the GCPV Accredited stream.

4.3.2 Fast Track

In addition to the course adjustments specified in 4.3.1, RPL for some components of UEERE4001 and UEERE5001, which are prerequisites for enrolling in this variant, has also been applied to part of the course. By providing evidence of their completion of these units, students are granted this RPL automatically at no cost, and do not need to apply separately for RPL based on UEENEEK125A, UEENEEK135A, UEENEEK148A, UEERE4001 or UEERE5001 if they have enrolled in the Fast Track stream.

5 Intellectual Property

The material on the GSES website is subject to copyright as are the written materials supplied with the GSES name on them.

6 Disclaimer

All material and information provided by GSES is in good faith and is believed to be accurate and current at the date of publication. GSES endeavours to inform all stakeholders of any change in applicable regulations, codes of practice, or standards.

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