

Applying for this Course:

To apply for this course you should be 16 years of age or older and have a MQF Level 2 in English and either Mathematics or Physics. If you do not have these qualifications or possess other qualifications or relevant experience, kindly contact us on qa.jobsplus@gov.mt. stating your ID card number, attaching copies of your qualifications and a copy of your CV highlighting your work experience. Alternatively, you can send the requested information by post addressed to: Quality Assurance Unit, Jobsplus Training Complex, Triq Birżebbuġa, Ғal Far BBG3000.

On successful completion of the Vocational Education and Training Award in Principles of Electrical and Electronics Engineering, the learner will be able to:

- ✓ Comply with the electronics / electrical trade's best health and safety practices and procedures
- ✓ Mitigate or reduce the main hazards of working with electricity by applying appropriate precautions before, during and after a given task
- ✓ Carry out tasks utilising best industry safe working practices to reduce health hazards when in contact with toxic materials, liquids, dust and fumes
- ✓ Deal with the labelling storage and disposal of hazardous waste materials utilising best industry practices
- ✓ Comply with the RoHS directive
- ✓ Carry out tasks implementing the correct electrical protective devices found in electronic / electrical circuits
- ✓ Ensure that protective clothing and equipment is correctly and consistently utilised and maintained
- ✓ Carry out manual handling operations according to best industry standards
- ✓ Ensure correct use, good housekeeping and maintenance of equipment in compliance with best industry practices
- ✓ Carry out measuring tasks using suitable measuring instruments, in order to determine various dimensional / electrical parameter ranges
- ✓ Produce drawings utilising the various standard electrical and electronic component circuit symbols
- ✓ Ensure the application of the correct biasing of semiconductors, in compliance to their specific type
- ✓ Produce circuits with various typical types of P-N junction diodes
- ✓ Build half / full and bridge rectifiers for their required applications
- ✓ Be responsible for the selection of the type of stabilized d.c. power supplies according to the particular circuit's power requirements
- ✓ Produce accurately biased circuits, utilising the various typical configurations of bipolar junction transistors
- ✓ Produce an inventory of the various different types of boards utilised in the assembly of electronic circuits
- ✓ Carry out tasks utilising the correct sequencing of assembly process to construct simple electrical and electronic circuits
- ✓ Carry out the appropriate pre-soldering processes on various electronic components
- ✓ Carry out various types of soldering processes that are most suited to electrically bond different electronic components and solder wires
- ✓ Deal with the inspection of soldering joints, repair 'dry joints and short circuits', to ensure a 'sound soldered' circuit
- ✓ Carry out tasks by utilising instruments that are best suited for measuring and recording various electrical parameters in electrical / electronic circuits
- ✓ Create electronic circuits by utilising various logic gates
- ✓ Carry out tasks utilising the functions of Wave form generators
- ✓ Advise about the correct handling and storage of fibre optic cables

The National Commission for Further and Higher Education (NCFHE) deems this certificate to be at Level 3 of the Malta Qualifications Framework and the European Qualifications Framework for Lifelong Learning. This course comprises study modules to which a total of 11 ECVET points are assigned.