

Applying for this Course:

To apply for this course you should be 16 years of age or older and hold an O Level qualification in Mathematics and Physics or successfully attained a VET Award in Mathematics and Physics for Electrical Fitters qualification. If you do not have these qualifications or possess other qualifications or relevant experience, kindly contact us on ga.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 Course in Electrical Domestic Installations (Licence 'A'), the learner will have the theoretical and/or practical knowledge of:

- ✓ Electrical units, quantity and unit symbols, dimensional prefixes
- ✓ Resistance of conductors and resistance networks
- ✓ Ohm's law and its application to D.C. networks
- ✓ Voltage drop and power loss in cables
- ✓ Heat energy and mechanical energy
- ✓ Illumination, quantity and units, symbols
- ✓ Cosine law, point to point method
- ✓ Photometry & light meters
- ✓ Cells in series, parallel and series-parallel combinations
- ✓ Fundamental laws of magnetism
- ✓ Electromagnetic induction
- ✓ Difference between AC and DC
- ✓ Resistance, Capacitance and Inductance in AC circuits
- ✓ The wheat stone bridge
- ✓ Double wound and auto transformers
- ✓ Simple construction details of core and shell type single phase transformers
- ✓ Testing of installations, use of testing instruments, faultfinding and remedies
- ✓ Lamp circuits
- ✓ Bell, call and burglar alarm circuits
- ✓ Scope of the IEE Regulations
- ✓ I.E.E. definitions
- ✓ Requirements for safety, handling of tools & equipment, precautions and procedures
- ✓ The T.T. system
- ✓ Sequence of control in consumer's premises and circuit diagrams
- ✓ Assessment of load, maximum demand, diversity and diversity factor and use of tables
- ✓ Standard lighting circuits, socket outlets ring and radial circuits, domestic cookers and water heaters
- ✓ Need for protection, fuses and MCBs – types and applications
- ✓ Scope of Earthing
- ✓ Special requirements for bathrooms and shower cubicles
- ✓ Principle application and operation of earth leakage circuit breakers
- ✓ Conducting and insulating materials commonly used in electrical installations
- ✓ Wiring systems
- ✓ IEE requirements for conductor joints and terminations
- ✓ Temporary installations excluding large construction sites
- ✓ Cable selection, size, use of rating factors and rating tables

Upon successful completion of this Course, the trainee may apply to sit for tests leading to a Licence A, administered by the Department of Education in conjunction with MRA.