

ELECTRICIAN'S MATE – (BASIC) (City & Guilds 3528-06 and 3529-06)

COURSE AIM	The aim of this course is to enable the trainee to acquire a basic knowledge of electrical installation, which will enable him to seek a job as an electrician's assistant.
COURSE CONTENTS	<ol style="list-style-type: none"> 1. Health and safety procedures related to the industrial environment 2. Numeracy skills related to basic electricity 3. Identification and proper use of tools relating to electric installation 4. Switch gear, consumer units, fuses CSA and rating cables 5. Measuring scale, how electricity is created at the Power Station, distribution of single and three phase 6. Conductors and insulators, multiples and submultiples, resistance:- colour code, series, parallel, series parallel configurations, Ohm's Law, power of a circuit 7. Cells:- series, parallel, transformers, bell circuits 8. ELCB circuit and how it works 9. Neon tube circuit 10. Colour coding of cables in circuits 11. Pipe bending with spring, two way systems with intermediate, chandelier, power circuits, ring and radial 12. Earthing 13. Testing instruments 14. Fault finding 15. IEE regulations 16. Exam 17. Basic Electronics:- resistance colour code and tolerance;



	capacitors type series and parallel; series and parallel resistors, current and voltage; circuit symbols, soldering and constructing a simple circuit; and revision and test.
DURATION	100 hours
SCHEDULE	Three times a week, evenings.
VENUE	At the ETC Training Complex in Hal Far.
ELIGIBILITY	All persons aged 16 years and over. Literacy and numeracy skills are an asset.
FEE	Nil
CERTIFICATION	Certificate of Achievement issued by ETC.



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