



UNIT MERINYU ELEKTRIK
ELECTRICAL INSPECTORATE UNIT

SYLLABUS FOR ELECTRICAL CONTRACTOR EXAMINATION – Revised 04/2014

A. THEORY	
1 Electricity Ordinance and Rules	7 Motor
1.1 Requirements of Electricity Ordinance.	7.1 Types of motors.
1.2 Electricity Rules 1999.	7.2 Methods of starting and control.
2 Trade Orientation and Electrical Safety	7.3 Control circuits & sequence interlocking.
2.1 Nature and scope of work of a wireman.	7.4 Protective gear.
2.2 Safety rules and regulations pertaining to working procedures.	7.5 Power factor.
2.3 Electrical shock treatment.	8 Switchgear & Protection
2.4 Occupational Safety And Health Act 1990.	8.1 Main Switchboards.
3 Wiring Practice	8.2 Over-current & Earth Fault Protection.
3.1 Rules and Regulations (Latest IEE or Latest Malaysian Standard (MS)).	8.3 Relay & protection switchgear.
3.2 Distribution of supplies in buildings.	8.4 Types of fault.
3.3 Planning & arrangement of final sub-circuits.	8.5 Earthing Systems.
3.4 Wiring Systems.	9 Low Tension Overhead Lines
3.5 Wiring Accessories.	9.1 Erection of LT lines on wooden poles.
3.6 Earthing Systems.	9.2 Wiring between buildings.
3.7 Testing and Inspection of Installations.	10 Underground Cables
4 Single and Three Phase Supply System	10.1 Distribution by underground cable & feeder pillars. (Underground services.)
4.1 Electrical principles.	10.2 Laying & protection of underground cables.
4.2 Single and three phase systems.	10.3 Cable faults & their location.
5 Lighting	10.4 Cable jointing.
5.1 Types of lamps.	11 Consumer's Apparatus & Equipment
5.2 Interior lighting design.	11.1 Principles, construction schematic diagram and maintenance of fluorescent light fittings, cookers, fans (ceiling, exhaust, OSC, stand and table), electric pump-sets, float -switches, water heater, etc.
5.3 Floodlighting.	12 Lightning Protection Systems
5.4 Street-lighting.	
5.5 Emergency lighting.	
5.6 Battery & charging systems.	
5.7 Inverter.	
6 Generators	
6.1 Single running & standby.	
6.2 Control systems.	
6.3 Testing.	