

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 1.2	Requirements of Electricity Ordinance. Electricity Rules 1999.	7.1 7.2 7.3	Types of motors. Methods of starting and control. Control circuits & sequence interlocking.
2	Trade Orientation and Electrical Safety	7.4	Protective gear.
2.1 2.2	Nature and scope of work of a wireman. Safety rules and regulations pertaining to	7.5	Power factor.
2.2	working procedures.	8	Switchgear & Protection
2.3 2.4	Electrical shock treatment. Occupational Safety And Health Act 1990.	8.1 8.2	Main Switchboards. Over-current & Earth Fault Protection.
3	Wiring Practice	8.3 8.4 8.5	Relay & protection switchgear. Types of fault. Earthing Systems.
3.1	Rules and Regulations (Latest IEE or Latest Malaysian Standard (MS).		
3.2	Distribution of supplies in buildings.	9	Low Tension Overhead Lines
3.3	Planning & arrangement of final sub- circuits.	9.1 9.2	Erection of LT lines on wooden poles. Wiring between buildings.
3.4 3.5	Wiring Systems.	10	Underground Cables
3.5 3.6	Wiring Accessories. Earthing Systems.		0
3.7	Testing and Inspection of Installations.	10.1	Distribution by underground cable & feeder pillars. (Underground services.)
4	Single and Three Phase Supply System	10.2 10.3	Laying & protection of underground cables. Cable faults & their location.
4.1	Electrical principles.	10.4	Cable jointing.
4.2	Single and three phase systems.	11	Consumer's Apparatus & Equipment
5	Lighting	11.1	Principles, construction schematic diagram
5.1	Types of lamps.		and maintenance of fluorescent light
5.2	Interior lighting design.		fittings, cookers, fans (ceiling, exhaust,
5.3 5.4	Floodlighting. Street-lighting.		OSC, stand and table), electric pump-sets, float -switches, water heater, etc.
5.4 5.5	Emergency lighting.		noat -switches, water heater, etc.
5.6	Battery & charging systems.	12	Lightning Protection Systems
5.7	Inverter.		
6	Generators		
6.1	Single running & standby.		
6.2	Control systems.		
6.3	Testing.		