

ELECTRICAL ENGINEER PRACTICE (1)

WRITTEN NOTES

page
1 → 11
11 → 19
20 → 58

TOPIC
generation of electricities (CD0046) / ^{WASHWIP CD0007}
OHS, RISK (CD0007)
Touch voltage, Fault Loop impedance, selection of
CB, cable size, earth wire, maximum circuit
length, Fault current, protection coordination,
maximum demand current from protection
co-ordination, RCD, (EL0003)
Drawing (1) Basic Drawing, circuit diagram
specifications. (CD0051 + ED0019)

V1260
G107/EL0018 Pt 2
0:3:06 → 0:15:18
+
EL0003 + G063 - 1/2/3

58 - 64

V1260 G107/EL0018 Pt 1 0:13:00 → 1:00:00
V1260 G107/EL0018 Pt 1 1:01 → 1:15:07

ELECTRICAL ENGINEER PRACTICE (2)

PAGE

TOPIC

V1260

1 → 2
3 → 5
5 → 7
8 → 12
13 - 30
31 -
31 → 41
42 - 43
43 → 89

wiring system installations (EL0012)
Hand Tools, welding (CD0019)
wiring system Requirement Building
Type (EL0012)
switch control Light wiring diagram
(EL0023)
Drills & Drilling, Tapping, Threading
Hammer spanner, Joining Technique
(CD0019)
Basic wiring (EL0023)
portable power Tools, cutting sheet
metal filing, hacksaw, measurement
(CD0019)
Consumer main, Maximum Demand
calculations
Number of socket outlets Table C9
cable selection, voltage drop
Derating, (EL0018)

G033 + EL0003/9/10
- 1 (5:20)

EL0023
G106
1 → 10

G103 + G104 + EL0012
(2)

G107/EL0018 Pt 1
1:01 → 1:05:00
52

G107/EL0018 Pt 2
0:39:14 - 1:02:58

G107 + EL0018 Pt 3 + 4 + 5 + 6 + 7 + 8
+ 9 + 10

ELECTRICAL ENGINEER PRACTICE(3)

<u>PAGE</u>	<u>TOPIC</u>	<u>VIDEO</u>
1 → 7	Fire protection, Smoke detector (E10012)	G033 + E10008/9/10 - 14
7 → 18	Derated maximum demand for HRC fuse protection, Fault loop Impedance, AC Resistance	G107 + E10013 Part 10 L0003 + G063 - 1/43
	maximum length of conductor,	
19 → 35	Earth wire size (E10003)	1:01:52 - 1:05:00 1:07:40 - 1:15:07
36 → 53	Illumination (E10008)	G107 + E10013 Part 11 (1:19:52) ↓ END
54 → 61	Emergency Systems, ups, stand by generator, battery, PV system (E10047)	G107 + E10013 Part 6 (5:39) ↓ END
62 → 70	Fire Protection Emergency System	
71 → 79	Emergency Lighting, Battery (E10012)	
	Remote power supply (PV system) (E10047)	
	Illumination control, Lights design (E10008)	G033 + E10008/9/10 - 13

ELECTRICAL ENGINEER TRADE PRACTICE(1)

VIDEO

<u>PAGE</u>	<u>TOPIC</u>	<u>VIDEO</u>
1 - 10	Lighting circuits, Light fixing, switching	G103 + G104 + E10012(1) 1 → 3:04 + 5:25 → 11:11
11 - 14	Sustainability	
16 - 17	Lighting circuits	
17 - 23	Environmental legislation	G033 + E10008/9/10 - 3
24 - 32	Lighting	
33 - 36	Pollution control	
37 - 46	Emergency Lighting	G033 + E10008/9/10 - 2 00:55
47 - 50	Green House effect	
51 - 61	Lighting + Heating	G033 + E10008/9/10 - 11/12/13

ELECTRICAL ENGINEER TRADE PRACTICE (1)

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PAGE	TOPIC	VIDEO
61 - 71	Heating (EL0009)	G003 + EL0009/9/6 - 9 24:10
71 - 83	Lighting + control circuit (EL0008)	G033 + EL0008/9/10 - 10 (21:31)
84 - 84	Socket outlets (EL0010)	EL0023 + EL106 1 → 10
84 - 86	Cable Termination Installation (EL0023)	
88 - 94	Socket outlet contribution of load (EL0010)	
95 - 100	Power generation & Pollution Energy efficient Building (RG0001)	
101 - 106	Socket outlet installation, cable size Socket outlet wiring switch board arrangement, Testing (EL0010)	G103 + 104 EL0012 (4)
107 → 110	Final subcircuit wiring Separation of circuits (EL0023)	EL0023 G106 1 → 10

ELECTRICAL ENGINEER TRADE PRACTICE (2)

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1 - 3	Environmental Impact Assessment (RG0001)	
4 - 6	Lighting circuit calculations (EL0008)	G033 + EL0008/9/10 - 5
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14 - 26	Alternative supply, solar electrical standby generator AS3000 Rules (EL0049)	
27 - 41	Battery calculations (EL0046)	

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1 - 15	Heating control, water heater E10009	9033+ E10002/9100 -4
16 - 18	Batteries C20046	
19 - 35	Fixed Heating Appliances, Heat transfer, Heating efficiency Aircon Refri cycle. (E10009)	9033+ E10002/9100 -9
36 - 43	Battery, Ring alarm, Heater connection (C20046, E10009)	
44 - 55	Water Heater (Instantaneous), 3φ Slow water heater (E10009)	
56 - 60	Metering / Thermostat (E10009)	

ELECTRICAL ENGINEER TRADE PRACTICE(4)

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1 - 12	connection Relay time clock, water heater Heating Tariffs, Simmerstat, Test E10009	

ELECTRICAL ENGINEER WORKSHOP PRACTICE (1)

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5 - 10	Sheet metal cutting, Tools, Chisel file, Hack Saw (C00019)	Workshop C00019-5
11 - 18	Tools List, Work Environment Hazards, Fire Control (C00071)	Workshop C00071-1 Workshop C00071-1
19 - 22	Drill / Drilling ²³⁻²⁷ manual Handley (C00019)	Workshop C00019-4/2 7:50
23 - 29	Tapping, Threading - Workshop C0007 - 2	

ELECTRICAL ENGINEER WORKSHOP PRACTICE (2)

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11 - 24	Cutting drill bit, Guides Drill & Drilling, Hammer, Hand Tool	Workshop C0007-4 11:45
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37 - 46	Work in confined space	11:45
47	Basic wiring	Workshop C0007 - 4
47 - 52	Portable power Tools	Workshop C0007 - 10
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61 - 61	Sheet metal cutting Tools	Workshop C0007 - 11

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11-18	Low tolerance measurement	G033 + EL0008/9/10 - 6 0:0:48 - 5:09
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11-39	Fix & secure, stud, partition, hollow wall Plugs, Ancon, stud bracket	workshop CD0007 - 12
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