

E108 Electrical Wiring 1 for Security Installation Course Lessons Plans/ Download link for Multimedia Lessons

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www.electricaldiploma2013.zoomshare.com

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Study Schedule

(Day 1)SESSION 1 - Thursday 8 to 10 AM (2hr) (13/11/2014)

Theory

T1 Cable protection and support method and accessories encompassing:

- Requirements to protect and support cables adequately - protection against mechanical damage, protection from adverse temperatures and corrosion and protection from magnetic field that may affect the performance of the cable.

- Cable support and protection devices, accessories and typical applications - metallic and non-metallic conduits, duct and trunking, cable ladder and tray, cable clips and ties and related accessories.

- Installation techniques - cable installation equipment and cable drawing and hauling techniques

Reference Notes

BASIC WIRING

VIDEOS

Electrical workshop Lesson 3 Mechanical fixing.zip

http://www.filefactory.com/file/c0adc1d/n/Electrical_workshop_Lesson_3_Mechanical_fixing.zip

[Electrical workshop Lesson 4 Basic electrical wiring.zip](#)

http://www.filefactory.com/file/c0add65/n/Electrical_workshop_Lesson_4_Basic_electrical_wiring.zip

[Electrical workshop Lesson 5 Wiring circuits.zip](#)

http://www.filefactory.com/file/c0ade9b/n/Electrical_workshop_Lesson_5_Wiring_circuits.zip

[Electrical workshop Lesson 5 Wiring circuits.zip](#)

http://www.filefactory.com/file/c0ade9b/n/Electrical_workshop_Lesson_5_Wiring_circuits.zip

[Electrical workshop Lesson 6 Electrical safety testing.zip](#)

http://www.filefactory.com/file/c0adf90/n/Electrical_workshop_Lesson_6_Electrical_safety_testing.zip

(Day 1)SESSION 2 - Thursday 10 to 12 Noon (2hr)

Protection Devices

Lecture Slides+Audio

[G063 Wk 7+8](#)

http://www.filefactory.com/file/423vowj4o34b/G063_Wk_7_8_zip

T2 Types of cables used in the electrotechnology industry and their application encompassing:

- Structural components of cables and their purpose - conductors and conductor material; insulation; sheathings and servings.
- Application of various cables types
- Cable variates - single cables, flexible cables, flexible cords, shielded cables, armoured cables, ribbon cables, other similar and like cables

[Electrical workshop Lesson 4 Basic electrical wiring.zip](#)

http://www.filefactory.com/file/c0add65/n/Electrical_workshop_Lesson_4_Basic_electrical_wiring.zip

[Electrical workshop Lesson 5 Wiring circuits.zip](#)

http://www.filefactory.com/file/c0ade9b/n/Electrical_workshop_Lesson_5_Wiring_circuits.zip

(Day 1)SESSION 3 - Thursday 1to 4PM (3 hr)

Practical

[Stage 4 Part 22.zip](#)

http://www.filefactory.com/file/c0cc83e/n/Stage_4_Part_22.zip

- **Stage 1 Electrical workshop practicals for advanced diploma students
Version 1.pdf**

The following practicals are to be performed

Practical 4 Open wiring—One switch control one light

Practical 6 Socket outlet wiring

Practical 3 Electrical safety testing

Three groups will rotate the practicals (ASSESSMENT 1-Practical)

(Day 2)SESSION 4 - Thursday 8 to 10 AM (2hr) (20/11/2014)

T3 Installing cables in buildings, structures and premises encompassing:

- Building construction method and construction sequence.
- Typical cable routes through buildings, structures and premises.
- Building codes affecting the installation of cables in buildings, structures and premises - limitation on penetration structural elements and maintenance of fire protection interiority
- Cable segregation requirements

<http://www.electricaldiploma2013.zoomshare.com/>

[G033+G063+G107 \(Week 1 to 6 Lessons\)\(G033\)](#)

http://www.filefactory.com/file/o65086876xx/n/G033_G063_G107_Wk_1_to_6_G033_zip

Week 3-G033+G063+G107 Notes

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Week 4-G033+G063+G107 Notes in Building structure

T4 Basic cable and conductor terminations encompassing:

- Insulation removal and replacement
- Conductor handling and cable terminations encompassing:
- General aspects and soldering involving pins on electronic components and stranded conductors carrying current up to 25 amperes.
- Application of connecting devices for conductors and terminals
- Continuity through connections and insulation resistance testing
- Stress release on cables/conductors.

[G106 Cable Termination](#)

http://www.filefactory.com/file/3bu35rbj8lm1/n/G106_Cable_Termination_pdf

(Day 2)SESSION 5 - Thursday 10 to 12 AM (2hr)

T5 Technical standards, regulations and codes related to extra-low voltage work encompassing:

- Limitation imposed by regulations
- How to read and apply a standard
- Aspects of technical Standards that apply to extra-low voltage work

AS3000:2007 Electrical Wiring Introduction

G033+G063+G107 Week 10 to 15

http://www.filefactory.com/file/5o65nbr36lrx/G033_G063_G107_Wk_10_to_15_zip

(Day 2)SESSION 6 - Thursday 1 to 4 PM (3hr)

G033+G063+G107 Wk 10 to 15\G107+G033 Wk 1

- Introduction to AS3000:2007 & Calculation of Maximum demand
- Cable selection by using AS3008

PRACTICAL

Calculate the maximum demand for electrical equipments installed in K2.11

ASSESSMENT (2) THEORY ASSIGNMENT

T6 Environmental and heritage regulation effecting electrotechnology work encompassing:

- Purpose of environmental and heritage regulation
- Typical issues affecting electrotechnology services and systems
- Meeting requirements

(Day 3)SESSION 7 - Thursday 8 to 10AM (2hr) (27/11/2014)

G033+G063+G107 (Week 1 to 6 Lessons)(G033)

http://www.filefactory.com/file/o65086876xx/n/G033_G063_G107_Wk_1_to_6_G033_zip

Study G033+G063+G105 Part 5.pdf

Hazardous area electrical installation

(Day 3)SESSION 8 - Thursday 10 to 12 Noon (2hr)

- Cable selection by using AS3008

(Day 3)SESSION 9 - Thursday 1 to 4PM (3hr)

Wiring Practical

Making the wiring boards by referring the boards in K2.11



The students will need to bring their own handtools

Plier

Screwdrivers (Flat/ Star)

Cutter

PVC Conduit

PVC Home wiring cable

Conduit clip

Drill

Switch

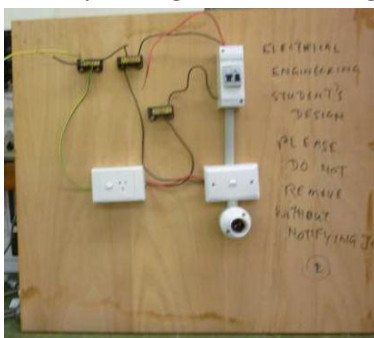
Socket outlet

Wood screws

To make the above circuit board

(ASSESSMENT 3-Practical)

Polarity testing of the following boards



Practical videos

Wiring Trunking Assembly.mp4 (68.41MB)

http://www.filefactory.com/file/gc12yb05nv1/n/Wiring_Trunking_Assembly.mp4

Use the fish tape to pull the cable.mp4 (66.25MB)

http://www.filefactory.com/file/633douc24xe7/n/Use_the_fish_tape_to_pull_the_cable.mp4

Switch board Circuit breaker Installation 1.mp4 (167.18MB)

http://www.filefactory.com/file/1avuobq7fh9z/n/Switch_board_Circuit_breaker_Installation_1.mp4

Pulling cable .mp4 (54.81MB)

http://www.filefactory.com/file/wca8oavoppz/n/Pulling_cable_.mp4

Install a sub panel.mp4 (165.11MB)

http://www.filefactory.com/file/78cij0a9xfaz/n/Install_a_sub_panel.mp4

Class Lesson Reference Videos

Video-- Electrical workshop Lesson 1 OHS.zip

http://www.filefactory.com/file/c0adbfa/n/Electrical_workshop_Lesson_1_OHS.zip

[Electrical workshop Lesson 2 Workplace hazard+Fix & secure equipment.zip](http://www.filefactory.com/file/c0adca2/n/Electrical_workshop_Lesson_2_Workplace_hazard_Fix_secure_equipment.zip)

http://www.filefactory.com/file/c0adca2/n/Electrical_workshop_Lesson_2_Workplace_hazard_Fix_secure_equipment.zip

Electrical workshop Lesson 3 Mechanical fixing.zip

http://www.filefactory.com/file/c0adc1d/n/Electrical_workshop_Lesson_3_Mechanical_fixing.zip

[Electrical workshop Lesson 4 Basic electrical wiring.zip](http://www.filefactory.com/file/c0add65/n/Electrical_workshop_Lesson_4_Basic_electrical_wiring.zip)

http://www.filefactory.com/file/c0add65/n/Electrical_workshop_Lesson_4_Basic_electrical_wiring.zip

[Electrical workshop Lesson 5 Wiring circuits.zip](http://www.filefactory.com/file/c0ade9b/n/Electrical_workshop_Lesson_5_Wiring_circuits.zip)

http://www.filefactory.com/file/c0ade9b/n/Electrical_workshop_Lesson_5_Wiring_circuits.zip

Electrical workshop Lesson 6 Electrical safety testing.zip

http://www.filefactory.com/file/c0adf90/n/Electrical_workshop_Lesson_6_Electrical_safety_testing.zip

Electrical workshop Lesson 7 Testing insulation and polarity.zip

http://www.filefactory.com/file/c0ad031/n/Electrical_workshop_Lesson_7_Testing_insulation_and_polarity.zip

Electrical workshop Lesson 8 Testing lighting polarity.zip

http://www.filefactory.com/file/c0ad1d8/n/Electrical_workshop_Lesson_8_Testing_lighting_polarity.zip

Class Lesson Reference Multimedia Lessons

http://www.filefactory.com/file/c0b67b7/n/Electrical_Workshop_Wiring_E001_2_3_4_5_7_8_33_G003_4_7.zip