

GE1-ELECTRICAL WIRING LESSONS

<u>VIDEO LESSONS</u>	<u>CLASS LESSON+AUDIO FILES</u>	<u>REFERENCE</u>	<u>PRACTICALS</u>
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ELECTRICAL WIRING YOU TUBRE+MP4 LESSONS

Electrical workshop

EE102	Basic Electrical Fitting & Wiring
EE103	Basic Electrical Drafting

E001+002+005+008+033/ E101+102+105+108+137+G106

Page 128 to 136 of

http://www.filefactory.com/file/cf9bf8f/n/Video_Lessons.pdf

Electrical workshop

Electrical workshop Lesson 1 OHS.zip

(E101)

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

<http://youtu.be/i2NjpBWI6tg>

[Electrical workshop Lesson 2 Workplace hazard+Fix & secure equipment.zip](#)

(E102)

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

<http://youtu.be/aVKhYs9ga7Y>

Electrical workshop Lesson 3 Mechanical fixing.zip

(E105)

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

http://youtu.be/s0SUSmL_e4E

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

(E108)

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

<http://youtu.be/gTjcE8ssull>

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

(E107)

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

SUNP0007

<http://youtu.be/m0dN0Wp6LCI>

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

(E137)

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

<http://youtu.be/LqRybJxm0tE>

[Electrical workshop Lesson 7 Testing insulation and polarity.zip](#)

(E137)

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

<http://youtu.be/9j63r3Wz6y8>

<http://youtu.be/e5MjQdEua-U>

[Electrical workshop Lesson 8 Testing lighting polarity.zip](#)

(E137)

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

<http://youtu.be/e5MjQdEua-U>

The links contain the following lessons

Electrical workshop Lesson 1 OHS

Electrical workshop Lesson 2 Workplace hazard+Fix & secure equipment

Electrical workshop Lesson 3 Mechanical fixing

Electrical workshop Lesson 4 Basic electrical wiring

Electrical workshop Lesson 5 Wiring circuits

Electrical workshop Lesson 6 Electrical safety testing

Electrical workshop Lesson 7 Testing insulation and polarity

Electrical workshop Lesson 8 Testing lighting polarity

Advanced Electrical Wiring

EE106	Advanced Electrical Wiring
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G003+G004+G007+ G103+G104+G033+G063

Page 149 to 163 of

http://www.filefactory.com/file/cf9bf8f/n/Video_Lessons.pdf

Electrical wiring + Electrical Installation requirement

[G003+G004+G007 Lesson 1 Electrical installation protection.zip](#)

(G063)

http://www.filefactory.com/file/c35d2f2/n/G003_G004_G007_Lesson_1_Electrical_installation_protection.zip

<http://youtu.be/wMGnk7cYluQ>

[G003+G004+G007 Lesson 2 Electrical system safety.zip](#)

http://www.filefactory.com/file/c386cc1/n/G003_G004_G007_Lesson_2_Electrical_system_safety.zip

(G063)

<http://youtu.be/ndBNctBCyLE>

<http://youtu.be/y4-suDOQnfA>

[G003+G004+G007 Lesson 3 Heating+Cable ckt protection exercise.zip](#)

http://youtu.be/8-iuLr8FD_8

<http://youtu.be/Z7zqONrPYjg>

http://www.filefactory.com/file/c0abfe8/n/G003_G004_G007_Lesson_3_Heating_Cable_ckt_protection_exercise.zip

(G063)

[G003+G004+G007 Lesson 4 Wiring system.zip](#)

<http://youtu.be/9u-B6l21leU>

<http://youtu.be/MF8Ytr840lk>

http://www.filefactory.com/file/cf939f0/n/G003_G004_G007_Lesson_4_Wiring_system.zip

(G033)

[G003+G004+G007 Lesson 5 Hazardous area electrical system.zip](#)

<http://youtu.be/5UwCK6vJXxM>

http://www.filefactory.com/file/cf94af8/n/G003_G004_G007_Lesson_5_Hazardous_area_electrical_system.zip

(G033)

[G003+G004+G007 Lesson 6 Overload protection RCD.zip](#)

<http://youtu.be/GW8yl5l6ERo>

http://www.filefactory.com/file/cf94bcf/n/G003_G004_G007_Lesson_6_Overload_protection_RCD.zip

(G063)

[G003+G004+G007 Lesson 7 RCD + Metering.zip](#)

<http://youtu.be/fPf-i5CfEQs>

http://www.filefactory.com/file/cf94cae/n/G003_G004_G007_Lesson_7_RCD_Metering.zip

(G063)

[G003+G004+G007 Lesson 8 Switch board installation.zip](#)

<http://youtu.be/aHTOkIhkoSY>

<http://youtu.be/eDcGnJb8rPM>

http://www.filefactory.com/file/cf94c40/n/G003_G004_G007_Lesson_8_Switch_board_installation.zip

(G033)

[G003+G004+G007 Lesson 9 Cable selection+Maximum demand.zip](#)

http://www.filefactory.com/file/cf94dbb/n/G003_G004_G007_Lesson_9_Cable_selection_Maximum_demand.zip

(G033)

<http://youtu.be/JJ1UFFDSsBk>

[G003+G004+G007 Lesson 10 Electrical installation safety testing.zip](#)

<http://youtu.be/fmbSQH0D300>

<http://youtu.be/Tc7oIF8Ube0>

<http://youtu.be/1GD9GK8i31o>

<http://youtu.be/u3nQqr6tKC4>

http://www.filefactory.com/file/cf94123/n/G003_G004_G007_Lesson_10_Electrical_installation_safety_testing.zip

(G033)

The links contain the following lessons

G003+G004+G007 Lesson 1 Electrical installation protection

G003+G004+G007 Lesson 2 Electrical system safety

G003+G004+G007 Lesson 3 Heating+Cable ckt protection exercise

G003+G004+G007 Lesson 4 Wiring system

G003+G004+G007 Lesson 5 Hazardous area electrical system

G003+G004+G007 Lesson 6 Overload protection RCD

G003+G004+G007 Lesson 7 RCD + Metering

G003+G004+G007 Lesson 8 Switch board installation

G003+G004+G007 Lesson 9 Cable selection+Maximum demand

G003+G004+G007 Lesson 10 Electrical installation safety testing

Electrical Installation

[EE104](#)

[Electrical Equipments Safety Protection](#)

G007+G107

Page 164 to 182 of

http://www.filefactory.com/file/cf9bf8f/n/Video_Lessons.pdf

Electrical Installation requirement

G007

G007 Lesson 1 AS3000 Wiring rule overview.zip

http://youtu.be/WBeeh_p2IQE

http://www.filefactory.com/file/cf94220/n/G007_Lesson_1_AS3000_Wiring_rule_overview.zip

G007 Lesson 2 Maximum Demand calculation.zip

<http://youtu.be/fseWrbnuQpQ>

<http://youtu.be/tColhvk-37A>

http://www.filefactory.com/file/cf9456f/n/G007_Lesson_2_Maximum_Demand_calculation.zip

G007 Lesson 3 Cable selection.zip

<http://youtu.be/6QyU03nf43U>

<http://youtu.be/Rjt91znelYI>

http://www.filefactory.com/file/cf9465c/n/G007_Lesson_3_Cable_selection.zip

G007 Lesson 4 Cable voltage drop calculation.zip

http://youtu.be/5f4_o7eoN9k

http://youtu.be/Mfltp_Lu_Sw

http://www.filefactory.com/file/cf9479e/n/G007_Lesson_4_Cable_voltage_drop_calculation.zip

G007 Lesson 5 Derating of cable part 1.zip

<http://youtu.be/m8SngH78Ce8>

<http://youtu.be/QkhwcGp9Wjo>

<http://youtu.be/A-RuMsTxEl0>

<http://youtu.be/7G4vvDzNIVU>

<http://youtu.be/7V6irU-hamo>

http://www.filefactory.com/file/cf95acb/n/G007_Lesson_5_Derating_of_cable_part_1.zip

G007 Lesson 6 Derating of cable part 2.zip

http://youtu.be/_o4CZZz0FC4

http://youtu.be/_flKk-406Ew

<http://youtu.be/Q1urXsDJ0Rk>

http://www.filefactory.com/file/cf95a6b/n/G007_Lesson_6_Derating_of_cable_part_2.zip

G007 Lesson 7 Derating of cable for HRC fuse protection.zip

<http://youtu.be/taqemDh06JA>

<http://youtu.be/k1teYmcnFnM>

http://www.filefactory.com/file/cf95cd7/n/G007_Lesson_7_Derating_of_cable_for_HRC_fuse_protection.zip

G007 Lesson 8 Final subcircuit fault loop impedance.zip

<http://youtu.be/rZXILwDHiTc>

<http://youtu.be/tTboXVGzxBA>

http://www.filefactory.com/file/cf95dd1/n/G007_Lesson_8_Final_subcircuit_fault_loop_impedance.zip

The links contain the following lessons

G007 Lesson 1 AS3000 Wiring rule overview

G007 Lesson 2 Maximum Demand calculation

G007 Lesson 3 Cable selection

G007 Lesson 4 Cable voltage drop calculation

G007 Lesson 5 Derating of cable part 1

G007 Lesson 6 Derating of cable part 2

G007 Lesson 7 Derating of cable for HRC fuse protection

G007 Lesson 8 Final subcircuit fault loop impedance

Electrical Equipment Repairs

[EE108](#)

[Electrical Fault Finding](#)

G008+G009 +G108+G109

Page 190 to 195 of

http://www.filefactory.com/file/cf9bf8f/n/Video_Lessons.pdf

Fault finding + Electrical control equipments

G008+G009

G008+G009 Lesson 1 AC Machine+AC motor control.zip

<http://youtu.be/fwyx6xSOPIs>

http://youtu.be/DJ_huMMsVT4

<http://youtu.be/pezBHVInm6M>

http://www.filefactory.com/file/c386c73/n/G008_G009_Lesson_1_AC_Machine_AC_motor_control.zip

[G008+G009 Lesson 2 Synchronous machine+DC machine+Transformer.zip](#)

<http://youtu.be/bwxocSr9ptE>

<http://youtu.be/ohyGNBontLg>

<http://youtu.be/adm0IWJYlyE>

http://www.filefactory.com/file/c0a7ad3/n/G008+G009_Lesson_2_Synchronous_machine+DC_machine+Transformer.zip

The links contain the following lessons

G008+G009 Lesson 1 AC Machine+AC motor control

G008+G009 Lesson 2 Synchronous machine+DC machine+Transformer

CLASS LESSONS

[Electrical Workshop+Wiring E001+2+3+4+5+7+8+33+G003+4+7.zip](#)

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

Exercise

Do Electrical Workshop Page 72 to 82 of the following link

[http://www.filefactory.com/file/c0b7da3/n/Advanced Diploma in Electrical Engineering Exercises .zip](http://www.filefactory.com/file/c0b7da3/n/Advanced_Diploma_in_Electrical_Engineering_Exercises.zip)

G007 Lesson 1 AS3000 Wiring rule overview.zip (41.47MB)

http://www.filefactory.com/file/4umpnul7imhr/n/G007_Lesson_1_AS3000_Wiring_rule_overview.zip

AS3000:2007

3000-2007_(+A2)[1].pdf (4.06MB)

[http://www.filefactory.com/file/1o86ivqe44p5/n/3000-2007_\(+A2\)\[1\].pdf](http://www.filefactory.com/file/1o86ivqe44p5/n/3000-2007_(+A2)[1].pdf)

1WiringInstallationDrawing.pdf (9.25MB)

<http://www.filefactory.com/file/61p7wokv3hcx/n/1WiringInstallationDrawing.pdf>

1.Lamp & Lighting Circuits

1.Lamp & Lighting Circuits.zip (6.51MB)

http://www.filefactory.com/file/4bbcqye0ay7n/n/1.Lamp_&_Lighting_Circuits.zip

2.Lighting Control+ Service Line

2.Lighting Control+Service Line.zip (10.41MB)

http://www.filefactory.com/file/7jm8ssx7dhez/n/2.Lighting_Control+Service_Line.zip

3.Electrical Wiring System

3.Electrical Wiring System.zip (10.51MB)

http://www.filefactory.com/file/1p4q2rxv8dl/n/3.Electrical_Wiring_System.zip

ElectricalDrawing.pdf (8.02MB)

<http://www.filefactory.com/file/3acfdh8mq87f/n/6-ElectricalDrawing.pdf>

4.Main Switch Wiring

4.Main Switch Wiring.zip (12.01MB)

http://www.filefactory.com/file/1p5g3lznywyh/n/4.Main_Switch_Wiring.zip

5.Fire Protection Smoke Alarm Hazardous System

5.Fire Protection Smoke Alarm Hazardous System.zip (2.92MB)

http://www.filefactory.com/file/2628v5hh6r0p/n/5.Fire_Protection_Smoke_Alarm_Hazardous_System.zip

6.Earthing System

6.Earthing System.zip (2.07MB)

http://www.filefactory.com/file/2iywe4v4xoir/n/6.Earthing_System.zip

7.Circuit Protection

7.Circuit Protection.zip (15.03MB)

http://www.filefactory.com/file/1lohvcybdwev/n/7.Circuit_Protection.zip

8.Fault Loop Impedance

8.Fault Loop Impedance.zip (12.4MB)

http://www.filefactory.com/file/6l4bjwnbrb79/n/8.Fault_Loop_Impedance.zip

9. Protection Mechanism

9. Protection Mechanism.zip (23.58MB)

http://www.filefactory.com/file/42yykez03un7/n/9._Protection_Mechanism.zip

10. Earth Fault Protection Mechanism

10. Earth Fault Protection Mechanism.zip (33.64MB)

http://www.filefactory.com/file/14d16zehmd69/n/10._Earth_Fault_Protection_Mechanism.zip

11.Maximum Demand Calculation with AS3000

11.Maximum Demand Calculation with AS3000.zip (15.71MB)

http://www.filefactory.com/file/63uq4bx5o617/n/11.Maximum_Demand_Calculation_with_AS3000.zip

12.Cable Selection 1

12.Cable Selection 1.zip (11.35MB)

http://www.filefactory.com/file/5xvw5aeqy5vf/n/12.Cable_Selection_1.zip

13.Cable Selection 2

13.Cable Selection 2.zip (16.67MB)

http://www.filefactory.com/file/4oz114m64r3/n/13.Cable_Selection_2.zip

14.Hot Water System

14.Hot Water System.zip (15.21MB)

http://www.filefactory.com/file/4ts0lsd3x32h/n/14.Hot_Water_System.zip

Battery

<http://www.filefactory.com/file/j7x4ox4mk23/Battery.pdf>

PRACTICAL DEMONSTRATION VIDEOS

Electrical Wiring

- **Practical Demonstration Videos (Youtube)**

Data Cabling

<http://youtu.be/YkYEX1INbXk>

Dimmer Light Installation

<http://youtu.be/NONS3PCXjYU>

Install Sub Panel

http://youtu.be/_QaDJoXuVyK

Installing EMT+MC Cable

<http://youtu.be/wsBCmyQLd30>

<http://youtu.be/1gJlzh3YER4>

Installing Feeder Wire from main busbar

<http://youtu.be/9zvRqJ83IVs>

<http://youtu.be/bdKMbeZgvrA>

Main Switch Board & Socket outlet Installation

<http://youtu.be/WtiTWdZkmoc>

<http://youtu.be/deY-tQvgWPM>

Pulling Cable

<http://youtu.be/qlyxUg8C3LU>

<http://youtu.be/8NS4ZldzBs4>

Switchboard Circuit Breaker Installation

<http://youtu.be/VcVCiD3oXz8>

<http://youtu.be/rzDMNA2wnns>

<http://youtu.be/ksxK4pcUsAw>

UG Conduit Installation

<http://youtu.be/4TU3TePjU5M>

Use fish tape to pull the cable

<http://youtu.be/gRqgVgmGNmw>

Wiring Trunking Assembly

<http://youtu.be/jjY6ezSZX1I>

- **Practical Demonstration Videos (Downloadable)**

Wiring Trunking Assembly.mp4 (68.41MB)

http://www.filefactory.com/file/qc12yb05nv1/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

UG Conduit installing.mp4 (37.2MB)

http://www.filefactory.com/file/1q511r9qlm8t/n/UG_Conduit_installing.mp4

Socket outlet refitting.mp4 (34.4MB)

http://www.filefactory.com/file/1sjlmhsrvro1/n/Socket_outlet_refitting.mp4

Pulling cable 1.mp4 (54.81MB)

http://www.filefactory.com/file/17vp65ypsirj/n/Pulling_cable_1.mp4

Pulling cable .mp4 (54.81MB)

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

Installing EMT+MC Cable 1.mp4 (133.85MB)

http://www.filefactory.com/file/61fff5q2jv33/n/Installing_EMT+MC_Cable_1.mp4

Installing EMT+MC Cable 2.mp4 (9.7MB)

http://www.filefactory.com/file/68b5xiakqibf/n/Installing_EMT+MC_Cable_2.mp4

Main switch board & socket outlet demo.mp4 (7.89MB)

http://www.filefactory.com/file/j8xe0bc8scl/n/Main_switch_board_&_socket_outlet_demo.mp4

Main switch board & socket outlet demo 2.mp4 (0.17MB)

http://www.filefactory.com/file/2ox3yuai0f3t/n/Main_switch_board_&_socket_outlet_demo_2.mp4

Installing feeder wire from main busbar.mp4 (39.63MB)

http://www.filefactory.com/file/2mzse07ajbs5/n/Installing_feeder_wire_from_main_busbar.mp4

Installing feeder wire from main busbar 1.mp4 (16.53MB)

http://www.filefactory.com/file/6c6l4j43fq3h/n/Installing_feeder_wire_from_main_busbar_1.mp4

Install a sub panel.mp4 (165.11MB)

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

Data cabling.mp4 (56.01MB)

http://www.filefactory.com/file/nhx1jss6s2v/n/Data_cabling.mp4

Dimmer light installation.mp4 (17.73MB)

http://www.filefactory.com/file/py8kl178bb5/n/Dimmer_light_installation.mp4

Electrical Machine Winding

- **Practical Demonstration Videos (Youtube)**

Coil Winding

<http://youtu.be/SQlyjA2w9Rs>

Motor Manufacturing

<http://youtu.be/uqXfEWscyWk>

Motor Winding

<http://youtu.be/bFluDssl98>

Removing Motor winding

<http://youtu.be/Ps2HBeLvikA>

Rewinding the motor

<http://youtu.be/iwtYONTQFck>

Three phase Motor Operation

http://youtu.be/mw8i_MLecyY

Transformer Coil Winding

<http://youtu.be/u182H2PZvo4>

Fitting Motor Winding in motor production factory

<http://youtu.be/EoGExBWRUBw>

- **Practical Demonstration Videos (Downloadable)**

Three Phase motor operation.mp4 (26.73MB)

http://www.filefactory.com/file/63dp8rzwhimz/n/Three_Phase_motor_operation.mp4

Transformer Coil Winding.mp4 (63.05MB)

http://www.filefactory.com/file/4m6361ql8h1/n/Transformer_Coil_Winding.mp4

Removing the motor winding.mp4 (54.23MB)

http://www.filefactory.com/file/1syreiox4wgf/n/Removing_the_motor_winding.mp4

Motor Winding.mp4 (15.89MB)

http://www.filefactory.com/file/4pmvtsi17vg9/n/Motor_Winding.mp4

Motor manufacturing.mp4 (34.52MB)

http://www.filefactory.com/file/2cih4cdsnltr/n/Motor_manufacturing.mp4

Fitting the motor winding in motor production factory.mp4 (70.1MB)

http://www.filefactory.com/file/4hsyf1n6wrjz/n/Fitting_the_motor_winding_in_motor_production_factory.mp4

Coil winding manufacturing.mp4 (29.84MB)

http://www.filefactory.com/file/3f0ffbncxzt5/n/Coil_winding_manufacturing.mp4

Electrical Power Wiring & Switch Gear Installation

- **Practical Demonstration Videos (Youtube)**

Circuit Breaker Operation

<http://youtu.be/5HxDcG-bXcE>

<http://youtu.be/oJjMZ42d3HY>

Circuit Breaker Testing

<http://youtu.be/YH4sisgVsal>

Electric Fire

<http://youtu.be/0DXz2Ny7w74>

<http://youtu.be/1n61ds40lt4>

Erecting OH Line Tower

http://youtu.be/4Oa_TYE03AA

High Power Transformer

<http://youtu.be/nkdMjGlq0eM>

<http://youtu.be/r6SiiiEM3U8>

<http://youtu.be/dK-co0rn28E>

HV DC Line

<http://youtu.be/LYWQOG1GI0A>

Line Breaker Action

<http://youtu.be/vGd9zOd1hVU>

Line Fault+ Switch Board Fault

<http://youtu.be/8DUGjhDMkiU>

Line Maintenance

<http://youtu.be/jP1ALtd8EJM>

<http://youtu.be/he29KVwB84w>

Line to Line Fault

<http://youtu.be/JOOxxmndQB0>

OH Line Installation

<http://youtu.be/G-iepsQ6wOw>

<http://youtu.be/IU63aXhAqYk>

<http://youtu.be/zG63ZtB5ZOQ>

Power Line Accident Due to Ladder

<http://youtu.be/csV1qiMskSQ>

Removal of link to disconnect 132KV Circuit Breaker

<http://youtu.be/mP11llkpxs>

UG Line Construction

<http://youtu.be/6VTxreRZFkQ>

ELECTRICAL WIRING REFERENCE BOOKS

Practical Demonstrations

Australian Electrician Training

http://www.filefactory.com/file/3unjizwlhmm9/n/Australian_Electrician_Training_Update1_pdf

Electrician Capstone unit.pdf

http://www.filefactory.com/file/6ecr9u3lghnx/Electrician_Capstone_unit.pdf

Wiring Notes 1.pdf (7.41MB)

http://www.filefactory.com/file/kxqqo6kqycj/n/Wiring_Notes_1.pdf

Wiring Notes 2.pdf (10.51MB)

http://www.filefactory.com/file/6dxhdn674p7r/n/Wiring_Notes_2.pdf

Wiring Equipments.pdf (3.09MB)

http://www.filefactory.com/file/1cir6r1sq4f/n/Wiring_Equipments.pdf

System_Installation_Examples_-_NUER02_version.pps (6.85MB)

http://www.filefactory.com/file/2prp78ykfc6z/n/System_Installation_Examples_-_NUER02_version.pps

Wiring Equipments to purchase.doc (1.09MB)

http://www.filefactory.com/file/2naom2w47i0h/n/Wiring_Equipments_to_purchase.doc

System safety 2.pdf (12.34MB)

http://www.filefactory.com/file/714g7yenvohd/n/System_safety_2.pdf

SubstationEntry.pdf (33.36MB)

<http://www.filefactory.com/file/27ylpaezd4zv/n/SubstationEntry.pdf>

System safety 1.pdf (13.77MB)

http://www.filefactory.com/file/39om9gml2bnj/n/System_safety_1.pdf

Switchboard Wiring.pdf (7.41MB)

http://www.filefactory.com/file/48jbyrwdewlb/n/Switchboard_Wiring.pdf

Stage 2 Wiring.pdf (26.9MB)

http://www.filefactory.com/file/fz4i3s95o0f/n/Stage_2_Wiring.pdf

Stage_1_Electrical_workshop_practicals_for_advanced_diploma_students_Version_1.pdf (2.52MB)

http://www.filefactory.com/file/5bg2pnpy8u0h/n/Stage_1_Electrical_workshop_practicals_for_advanced_diploma_students_Version_1.pdf

Regulatory Requirement.pdf (17.1MB)

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EE102 Basic Electrical Fitting & Wiring

Tutoring Lessons

[Lesson 1](#) [Lesson 2](#) [Lesson 3](#)

Test & Assessment

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Type your name Put the following access code

CEAHU

Study EE102 & then do the following Exercises

EE102 Exercises

Q1

Ref 575

The tests to be conducted for electrical installation safety are

- Earthing system test
- Insulation resistance test
- Polarity test
- All above

Q2

Ref 574

The insulation resistance must be

- very high
- very low

Q3

Ref 573

The resistance of earth must be less than

2 ohm

10 ohm

20 ohm

Q4

Ref 572

The switch should be connected on

Q5

Ref 571

The colour of earth wire is

Red

Black

Green and yellow

Q6

Ref 570

The colour of neutral wire is

Black

White

Green

Q7

Ref 569

The colours of active wire are

Red

Blue

Black

Brown

First and last one

Q8

Rer 568

Two types of failure of fixing are

Q9

Ref 567

How many nails should be driven into each brick

One

Two

Three

Q10

Ref 566

Nail should not be driven into mortar joint

True

False

Q11

Ref 565

To drill the hole, a pilot hole must have

The same diameter as to the hole that you want to drill

Smaller diameter as to the hole that you want to drill

Bigger diameter as to the hole that you want to drill

Q12

Ref 564

It is safe to remove the person who is electrocuted at 1000V

True

False

Q13

Ref 563

To use the hand held electrical equipments in the workplace, the insulation must be

Double insulation

Single insulation

Q14

Ref 562

It is safe to walk in forklift way in the factory and stand under the scaffolding

True

False

Q15

Ref 561

To lift a heavy equipments

Bend the kneel and lift with kneel force

Bend the back and simply lift it

Q16

Ref 560

Safety glass and safety hat are included in

Q19

Ref 559

Employer will not need to take any responsibility to provide the safe operational equipments in the workplace

True

False

EE104 Electrical Equipments Safety Protection

Tutoring Lessons

[Lesson 1](#)

Test & Assessment

Study all lessons in EE104+EE105+EE106+EE107 and EE108 and sit the test for EE106+EE108 to get the points for all those units.

Study the notes in EE104 Power Points & do the following exercises.

Q1.Sketch RCD Connection

Q2.Sketch earthing system and earthing arrangement.

Q3.What is the supplementary system for earthing?

Q4. What are the types of earthing systems?

Q5.Sketch the connection diagram for smoke alarm.

Q6. Why earthing system is provided?

Q7. Sketch the arrangement of an earthing system.

Q8. Write the formula to calculate the voltage drop.

Q9. How will you isolate the live parts?

Q10. What is the meaning of ELCBN

[EE105 Electrical Installation Design](#)

[EE107 Electrical Equipments](#)

[Tutoring Lessons](#)

[Lesson 1](#) [Lesson 2](#) [Lesson 3](#) [Lesson 4](#)

[Test & Assessment](#)

Study all lessons in EE104+EE105+EE106+EE107 and EE108 and sit the test for EE106+EE108 to get the points for all those units.

[EE105 Electrical Installation Design](#)

[EE107 Electrical Equipments](#)

Study the powerpoints in

EE105+107 Power Point Part 1

EE105+107 Power Point Part 2

EE105+107 Power Point Part 3

EE105+107 Power Point Part 4

and do the following exercises.

[EE105+107 Power Point Part 1](#)

Q1. Describe the structure of wiring rules

Q2. Take the practice on problem in presentation 48.

EE105+107 Power Point Part 2

Q3. Determine the maximum route length of 6 mm² bare copper single phase consumer main with maximum demand of 80A and permissible voltage drop of 4.3 V.

EE105+107 Power Point Part 3

Q4.

Calculate the voltage drop in each segment of a 3 phase 400 volt non-domestic installation consisting of the followings.

Consumer main

Phase = 3 Maximum demand 45 Amp Route length = 25 m

Cable size 16 mm²

Cable configuration V90 Single core thermo plastic and sheathed copper conductor

Cable installation

The circuit is enclosed in heavy duty rigid thermoplastic conduit with no other circuits. Conduit is buried in the ground having an ambient soil temperature of 25 °C and has a top cover of 0.65 m.

Sub main

Phase = 3 Maximum demand = 35 A, Route length = 35 m

Cable size = 10 mm²

Cable configuration

V90 Single core thermoplastic and sheathed copper conductors structure in trefoil formation and installed in single circuit configuration unenclosed in air

Final sub circuit

Phase = 1 Maximum demand = 20 Amp Route length = 35 m

Cable size = 4 mm²

Cable configuration - V90 two cores and earthed thermoplastic and sheathed copper conductors

Cable installation - The cables are clipped to the building structure and installed in single circuit configuration , unenclosed in air.

Does this portion of the installation comply with the voltage drop requirement of AS/NZS 3000 ?

EE105+107 Power Point Part 4

Q5.

A final sub-circuit supplies a load consisting of a range in a domestic installation and is protected by 32A Type C circuit breaker. Determine the maximum internal fault loop impedance of final sub circuit based on 230V when supply is unavailable.

EE106 Advanced Electrical Wiring

EE108 Electrical Fault Finding

Tutoring Lessons

[Lesson 1](#) [Lesson 2](#) [Lesson 3](#) [Lesson 4](#)

Test & Assessment

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Type your name Put the following access code

NY78T

Then do the following exercises.

1) Ref 604

A final subcircuit supplies a load consisting of 25A outlet and protected by 25A HRC fuse. Determine the maximum fault loop impedance of final subcircuit & based on 230V.

2) Ref 603

Final subcircuit supplies a load consisting of a range in domestic installation & is protected by 32A CB . Determine maximum internal fault loop impedance of final subcircuit based on 230V.

3) Ref 602

Write the formula to calculate the voltage drop in electrical cable

4) Ref 601

Describe the overview of AS 3000 Electrical wiring rule.

5) Ref 600

What are the requirements to install the switch board?

6) Ref 599

Explain the installation of switch board

7) Ref 598

Explain the operation principle of RCD with sketch

8) Ref 597

Explain the requirements of switch board in domestic electrical installation

9) Ref 596

Sketch the connection of a typical switch board

10) Ref 595

Describe the followings

(a) Basic protection principle (b) Overload and short circuit protection

11) Ref 594

Explain the explosion protection techniques.

12) Ref 593

Sketch TPS wiring system

13) Ref 592

Explain underground wiring system with sketch

14) Ref 591

Explain the following equipments

(a) Water heater (b) Cooking appliances (c) Motor

15) Ref 590

Sketch earthing system and earthing arrangement

16) Ref 589

Explain electrical installation safety testing procedures

17) Ref 588

Sketch the polarity testing circuits

18) Ref 587

What are the types of RCD?

19) Ref 586

Outline the overload protection devices

20) Ref 585

(a) Explain earthing protection

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<http://www.filefactory.com/file/14d16zehmd69/10.%20Earth%20Fault%20Protection%20Mechanism.zip>

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<http://www.filefactory.com/file/1p4q2rxv8dl/3.Electrical%20Wiring%20System.zip>

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<http://www.filefactory.com/file/6l4bjwnbrb79/8.Fault%20Loop%20Impedance.zip>

<http://www.filefactory.com/file/42yykez03un7/9.%20Protection%20Mechanism.zip>

<http://www.filefactory.com/file/4umpnul7imhr/G007%20Lesson%201%20AS3000%20Wiring%20rule%20overview.zip>