

G102 - E10019 E10039 Part 1

NS3000 RUC
13:00 → 19:00
28:45 → 35:50 Fault Loop Impedance

1:01:52 → 1:05
Max. Demand

36:33 → 38:51
41:00 → 58:25
NS3000 RUC
Fault Protection

1:09:40 → 1:15:07

→ 1:00:00
Circuit length

Protection
Coordination

Protection
Coordination

1:19:52 → END - Lightning

G102 + E10019 E10039 Part 2

3:06 → 15:28 - Fault calculation
24:44 Protection Device | Earth fault loop Z
Protection co-ordination

39:14 → 1:02:59 Max. Demand | cable selection

G102 + E10019 - E10039 Part 3

Fault current | cable selection upto 20:29:00
RCB | connection

0:29:00 → END

G102 + E10018 + E10039 Part 4
Maximum Demand calculation (1)

G102 + E10018 - E10039 Part 5
Maximum Demand calculation (2)

G107 + EL001B + EL0039 Part 6

Non Domestic Energy Demand

0 → :05:00

05:10 → 13:14

Table C9 / contribution
determination of outlets

→ 24:41

Installation condition.

24:41

cable selection / voltage drop / standby I

31:10 → 51:36

Stand by supply

51:39 → END

G107 + EL001B + EL0039 Part 7

ALL

voltage drop calculation cable selection I
standby + standby

G107 + EL001B + EL0039 Part 8

cable selection / derating III

G107 + EL001B + EL0039 Part 9

Earth fault loop impedance / AC Resistance / Earth
wire
resistance

External / Internal Resistance

upto 15:00

15:00 → 16:41

max: length
% Vd acceptance / compliance

G107 + EL001B + EL0039 Part 10

AS3000 maximum Demand.

1:01:52 → 1:05
Max. Demand

1:03:40 - 1:15:07
Protection
coordination

1:18:52 → END - Lightning

28:45 → 35:50 Fault loop Imped

36:33 → 38:51

41:00 → 52:25

Fault Protection
Circuit length
Protection
coordination

G107 + EL0019 EL0039 part 2

3:06 → 15:28 - Fault calculation

24:44 Protection Device | Earth fault loop

Protection co-ordination

39:14 → 1:02:59 Max. Demand | cable selection

G107 + EL0019 - EL0039 part 3

Fault current | cable selection

END

0:29:00 → END

G107 + EL0019 + EL0039 part 4

Maximum Demand calculation (1)

G107 + EL0019 - EL0039 part 5

PCB | connect

G102 - E10019 E10039 Part 1

13:00 → 12:00 NS3000 Rule

28:45 + 35:50 Fault Loop Impedance

1:01:52 → 1:05
Max. Demand

36:33 + 38:51

11 "

41:00 → 59:25
Fault Protection

1:07:40 → 1:15:07

→ 1:00:00
Circuit Length

Protection

Protection

Coordination

Coordination

1:18:52 → END - Lightning

G102 + E10019 E10039 Part 2

3:06 → 15:28 - Fault calculation

24:44 Protection Device | Earth fault loop Z

Protection co-ordination

39:14 → 1:02:59 Max. Demand | cable selection

G102 + E10019 - E10039 Part 3

Fault current | cable selection upto 0:29:00

0:29:00 → END

RCB | connection

G102 + E10018 + E10039 Part 4

Maximum Demand calculation (1)

G102 + E10019 - E10039 Part 5

Maximum Demand calculation (2)

G107 + EL001B + EL0039 Part 6

Non Domestic Energy Demand

0 → :05:00

05:10 → 13:14

Table C9 / contribution
determination of outlets

→ 24:41

24:41

Installation completion.

31:10 → 51:39

cable selection / voltage drop / derating I

51:39 → END

Stand by supply

G107 + EL001B + EL0039 Part 7

ALL

voltage drop calculation cable selection I
derating + standby

G107 + EL001B + EL0039 Part 8

cable selection / derating III

G107 + EL001B + EL0039 Part 9

Earth fault loop Impedance / AC Resistance / Earth
wire resistance

External / Internal Resistance

upto 15:00

15:00 → 16:41

max: length
% Vd acceptance / compliance

G107 + EL001B + EL0039 Part 10

AS3000 maximum Demand.

G103 + G104 + UEEEL0012 (1)

1 → 3:04 - Wiring system

S:25 → Building Type

S:25 → 11:11 - Wiring circuits + equipments

G103 + G104 + UEEEL0012 (2)

Consumer main + maximum demand
categories + Types of load,

G103 + G104 + UEEEL0012 (3)

Wiring circuits + cable protection
cable trunking | Earthing

G103 + G104 + UEEEL0012 (4)

Switch board arrangement | location

Type of wiring system | current carrying capacity

G103 + G104 + UEEEL0012 (5)

Practical videos

G033 - E1000/9110-9

E1000 24:10 - Water Heaters

G033 + E1000/9110-10 - Illumination (21:3)

E1000 Hotwater electrical system
Hotwater system of Heaters supply

Q033 + EL008/9/10-11

Q033 + EL008/9/10-1

S:20 Wiring system / switch
Loop at switch / light / 2ways
Fire safety, / configuration

Q033 + EL008/9/10-2

EL009 00:55 - Emergency lighting

Q033 + EL008/9/10-3

EL009 Lighting / Ballast | Heating Problem

Q033 + EL008/9/10-4

EL008 Heating Problem

Q033 + EL008/9/10-5

EL009 Fire Alarm system

Q033 + EL008/9/10-6

1:48 - S:09 - measurement | S:09 → End CPR

EL004A 0 → 0:42 - Inverter

Q033 + EL008/9/10-7

EL004A Earthing / load | up to 11:20
11:21 Battery

Q033 + EL008/9/10-8

up to 18:43 - Emergency Standby system

EL004A

22:56 - Standby generator

22:56 → Smoke detector

Q033 + EL008/9/10-9

Heating Problem, up to 15

EL008

15 → Head / Cool Alarm / Refrig cycle | 20:34
Fire alarm
location

G033+EL008/9/10-11

EL009 Emergency lighting fixture

G033+EL008/9/10-12

EL009 Illumination + Principle of lighting LED

G033+EL008/9/10-13

0 → 2.51 Lighting

2.51 → 6:39 Lighting control switch

EL010 { 6:49 → Supply wiring / consumer main / wiring diagrams

Switches, cable socket outlet

G033+EL008/9/10-14

EL0012 / Fire Protection / Smoke detector

EL0003+G063-1

Installation

Fault Protection NS3000 / Testing / Requirement

EL0003+G063-2

Circuit Schedule / Locking / NS3000 Isolation

PELVISELV clause / main switch Def

Switching Device.

EL0003+G063-3

Appliance Supply / Protection / Heating cable

AS3000 clause / RCD / socket outlet

Pump Area / Protection Table 6.2

Bonding conductor

EL0003 + G063 - 4

Earthing system / main line Earthing Arrangement

EL0003 + G063 - 5

Earthing / equipotential bonding / connection

EL0003 + G063 - 6

Surge Protection / Voltage Disturbance
connection

EL0003 + G063 - 7

Earthing Systems / RCCB / RCCB circuit
Wiring Arrangement

EL0003 + G063 - 8

circuit Protection / Fuse / CB / Arrangement
of Protection
Final Subcircuit Earth fault Loop
Devices
Calculation / Selection of equipment
Fault current calculation / metering

EL0023 - G106 - 1

Termination / Types of cable.

EL0023 - G106 - 2

Cable Installation / crimping / Symbol
(GPOOS)

EL0023 - G106 - 3

CRCP, AS3000 Rule / Plug / socket
Types of Plugs.

EL0023- G106-4

Types of wire / Trunking / Enclosed wiring
Segregation

EL0023- G106-5

Types of cables / TPS cable / Deratms
Cable support / connection / safety Test

EL0023- G106-6

connection / compression gland / IP

EL0023- G106-7

Types of wiring enclosures / conduit Bending
Support / Hazardous Area Protection
Wiring Trunking

EL0023- G106-8

Heading cable / containers wire / Aerial cable

EL0023- G106-9

Fine Resistant wiring / containers / mms

EL0023- G106-10

Practical videos

EL0023- G106-11 X

Workshop UEECP0007 + 19 + 20 - 1 - 1
Work Environment
Hazard upto 10
↓
10 - drilling
End

Workshop UEECP0007 + 19 + 20 - 2

Manual Hand Lins - 7:50

Hollas wall fixings / Threading / Tapping

Workshop UEECP0007 + 19 + 20 - 3

11:45 - working at Height

11:45 → Joining Termigore

Workshop UEECP0007 + 19 + 20 - 4

→ 8:04 - Drilling

8:04 → confined Space

Workshop UEECP0007 + 19 + 20 - 5

Chisel + Hammer / Tapping screw / Hand tool
welding / cutting / grinding

Workshop UEECP0007 + 19 + 20 - 6

Electrical Pangers / Isolation / LOTO

Workshop UEECP0007 + 19 + 20 - 7 X [Integration
maths]

Workshop UEECP0007 + 19 + 20 - 8

Disament Lins

WORKSHOP WEEK 2009 + 19 + 20 - 9

Mechanical Drawings for Fix / Secure

WORKSHOP WEEK 2009 + 19 + 20 - 10

Planning & materials.

Safety in workshop

WORKSHOP WEEK 2009 + 19 + 20 - 11

Steel | Iron | materials metal cutting
Plaster Board | Fix & secure

WORKSHOP 2009 + 19 + 20 - 12

Anchor | Fixing |

WORKSHOP 2009 + 19 + 20 - 13

metal Fixing

FIT
SECURE

FIT
SECURE

FIT
SECURE