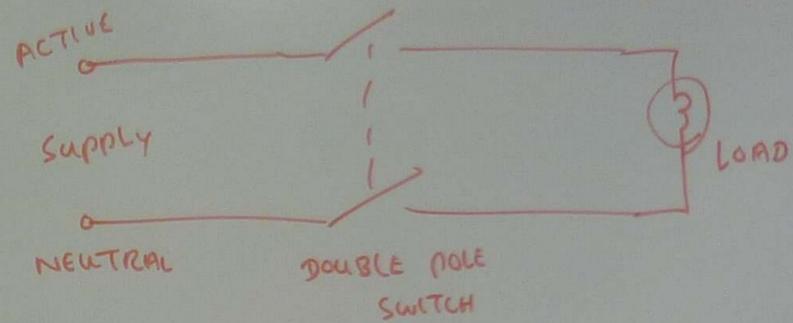
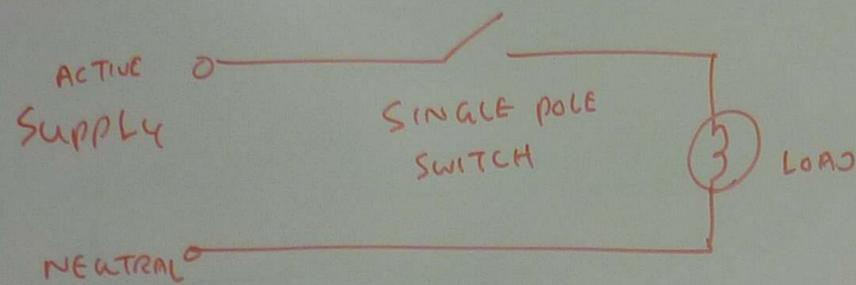
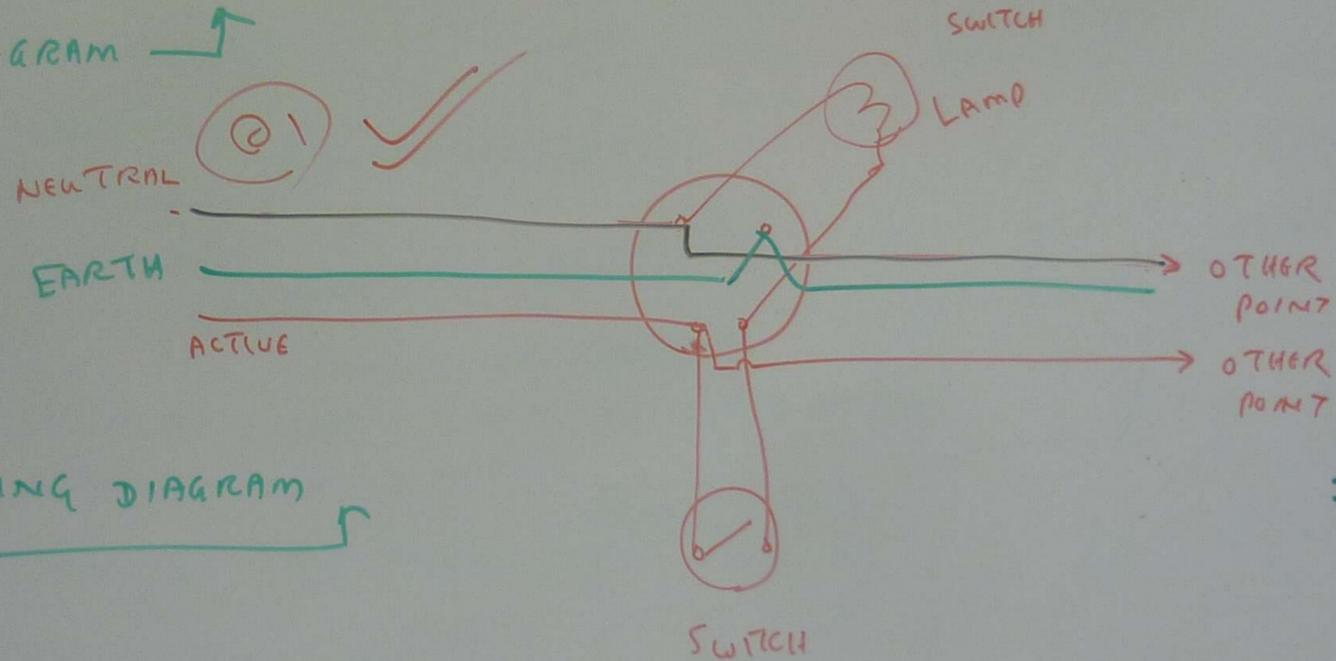


ELECTRICAL WIRING SYSTEM



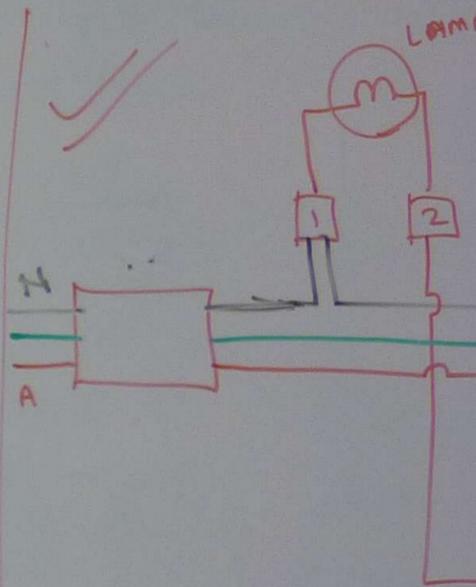
SCHEMATIC DIAGRAM →



WIRING DIAGRAM →

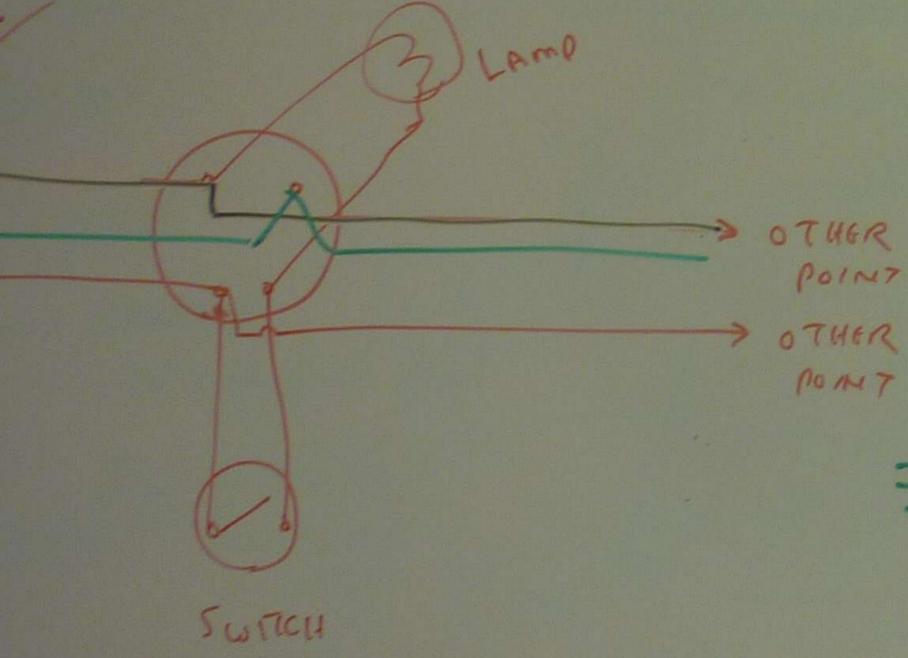
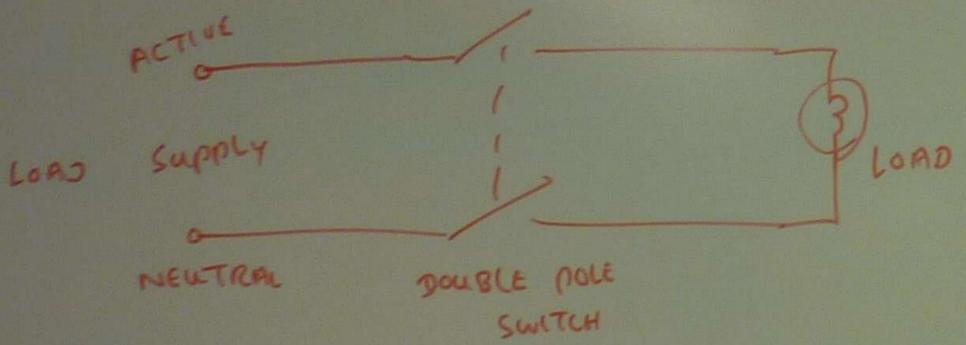
ONE SWITCH CONTROLLING
ONE LAMP

SIMPLIFIED



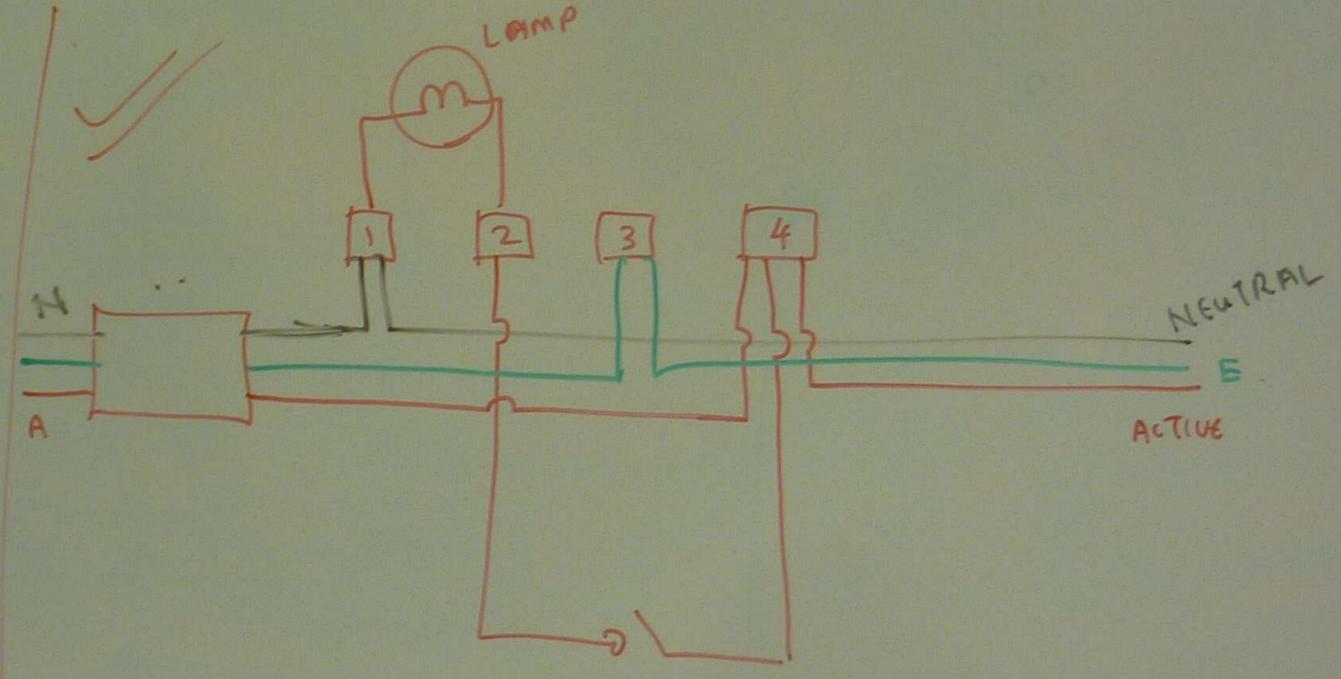
SIMPLIFIED

SYSTEM



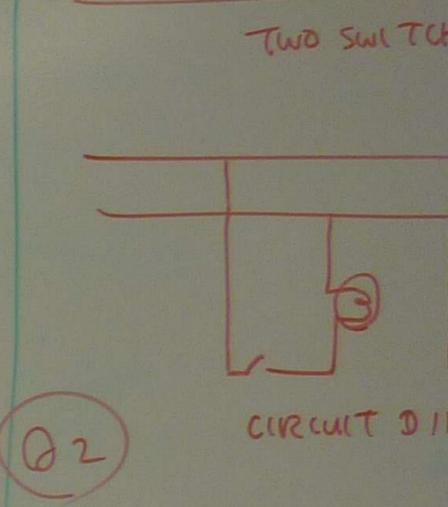
ONE SWITCH CONTROLLING ONE LAMP

SIMPLIFIED CIRCUIT

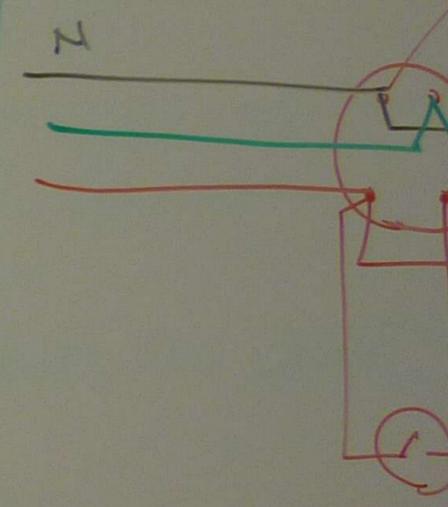


SIMPLIFIED WIRING DIAGRAM

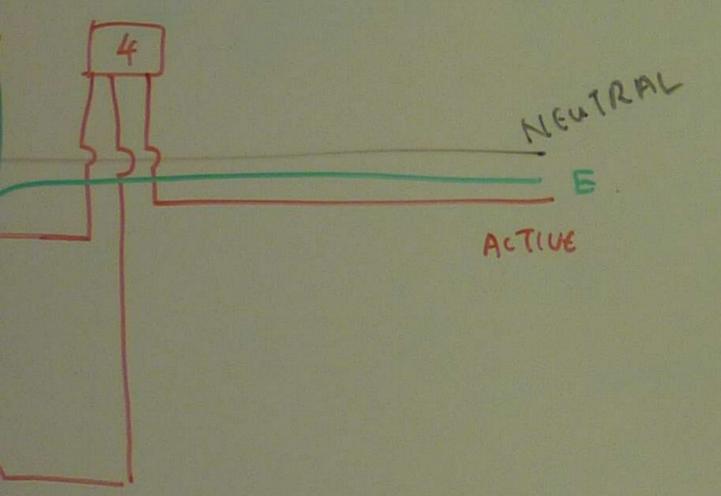
MORE THAN ONE SW



Q2



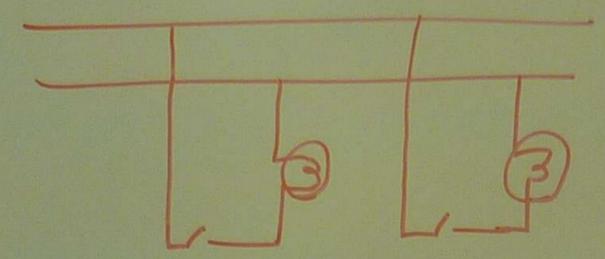
WIRING



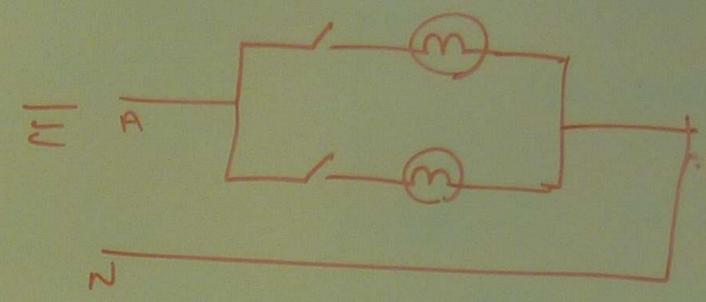
WIRING DIAGRAM

MORE THAN ONE SWITCH

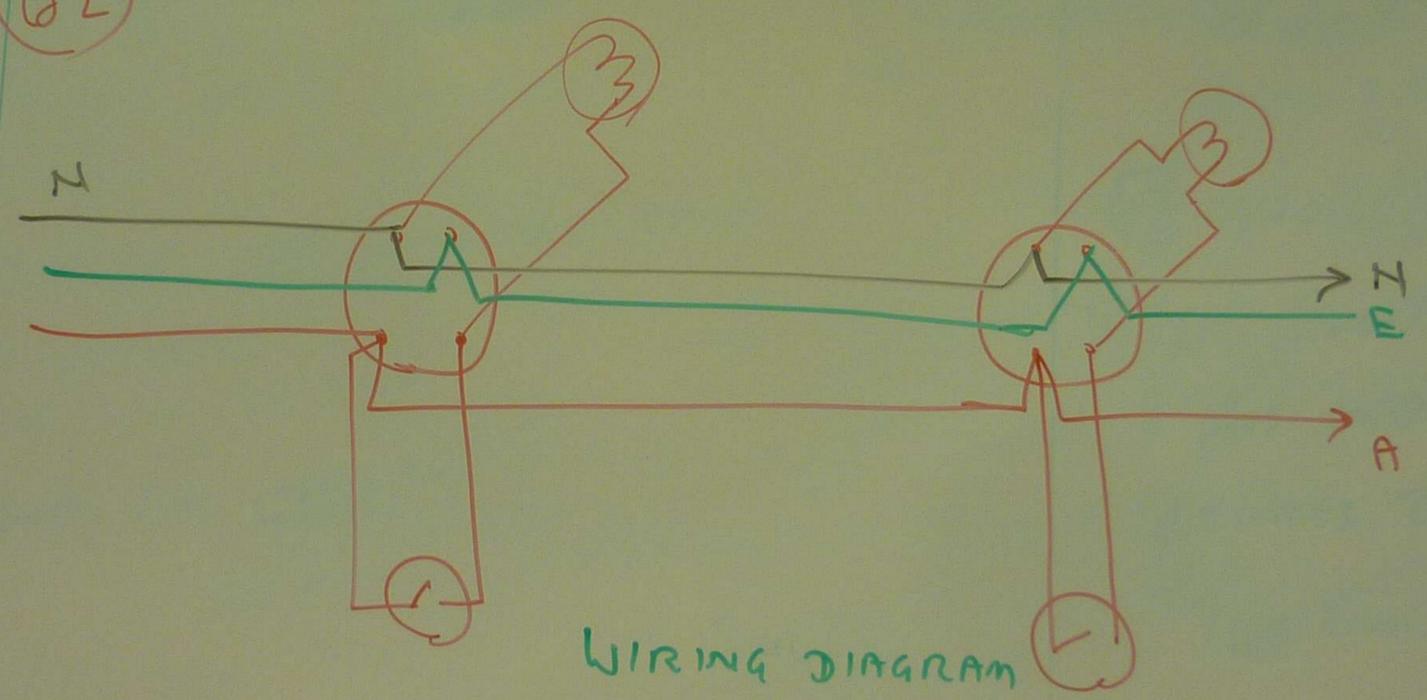
TWO SWITCHES



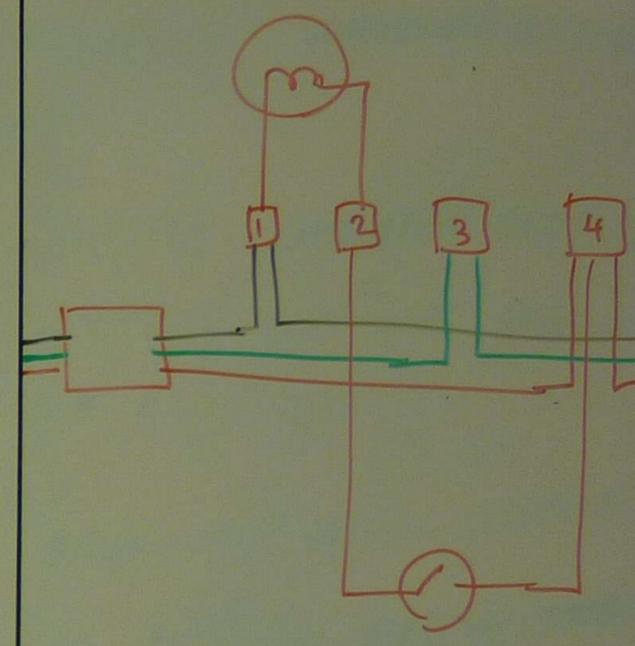
CIRCUIT DIAGRAM



Q2



WIRING DIAGRAM

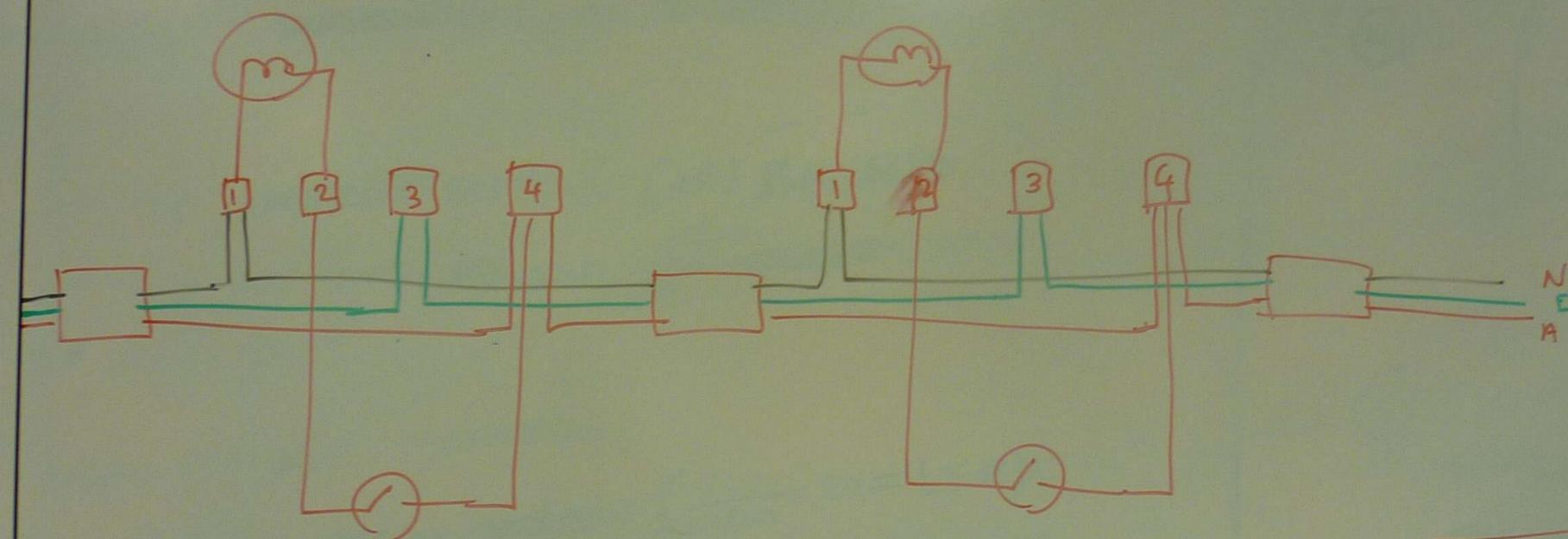
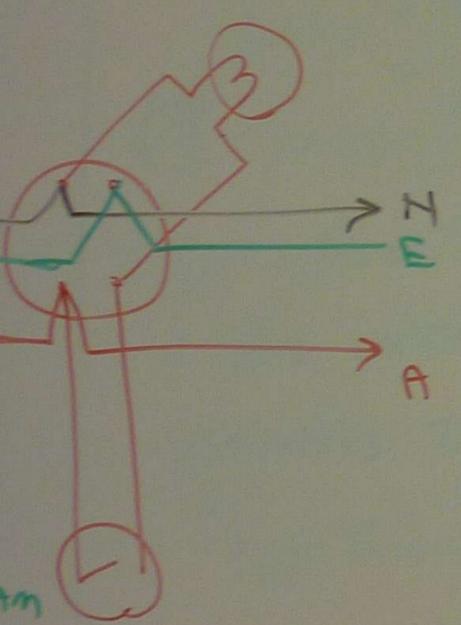
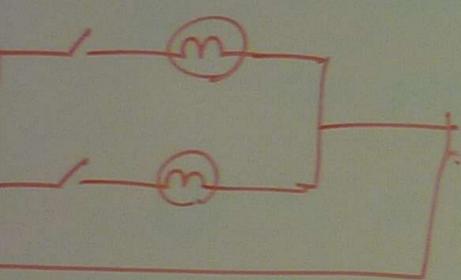


SIMPLIFIED D

Q3

WIRING

- 240V
- MOUNT
- CONDUIT
- JUNCT
- COUPL



SIMPLIFIED DIAGRAM

03

WIRING ACCESSORIES & EQUIPMENTS

- | | |
|--------------------|----------------|
| - 240V GANG SWITCH | - ELBOW |
| - MOUNTING BLOCK | - TEE |
| - CONDUIT | - LAMP HOLDER |
| - JUNCTION BOX | - 3 CORE CABLE |
| - COUPLER | - PVC |

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STAGE 1 ELECTRICAL

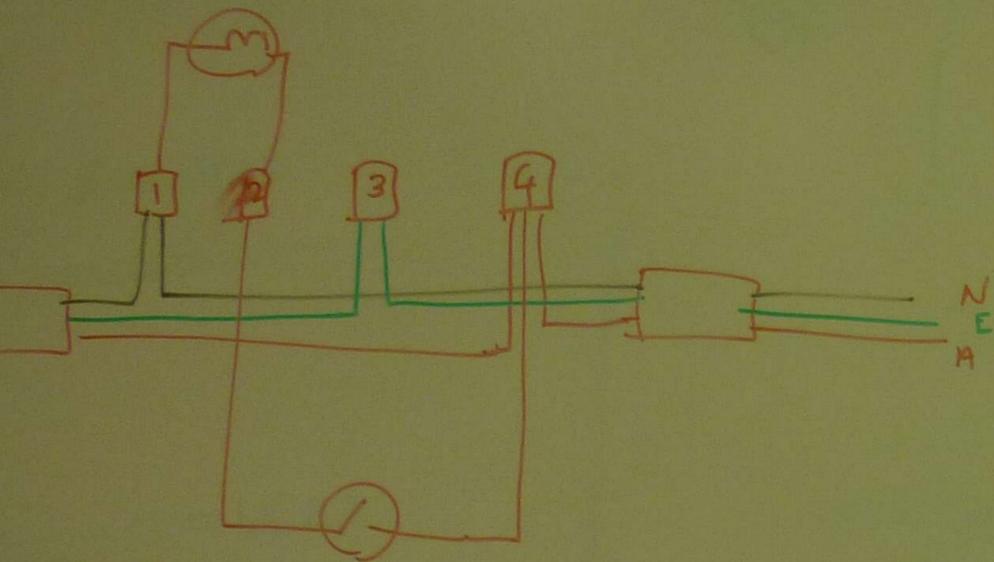
STAGE 4 PART 22

WIRING EQUIPMENTS TO

STAGE 1 PART 5

TUTORIAL QUESTIONS

- 1) SKETCH THE CIRCUIT OF CONTROLLING ONE LIGHT
- 2) SKETCH THE CIRCUIT SWITCHES CONTROLLING LIGHTS.
- 3) LIST THE BASIC EQUIPMENTS & TOOLS FOR WIRING



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STAGE 1 ELECTRICAL WORKSHOP
PRACTICAL

STAGE 4 PART 22

WIRING EQUIPMENTS TO PURCHASE

STAGE 4 PART 5

TUTORIAL QUESTIONS

- ① SKETCH THE CIRCUIT ONE SWITCH CONTROLLING ONE LIGHT
- ② SKETCH THE CIRCUIT TWO SWITCHES CONTROLLING TWO LIGHTS.
- ③ LIST THE BASIC EQUIPMENTS & TOOLS FOR WIRING

TOOLBOX & EQUIPMENTS

- | | |
|--------|----------------|
| SWITCH | - ELBOW |
| BLOCK | - TEE |
| | - LAMP HOLDER |
| | - 3 CORE CABLE |
| | PVC |

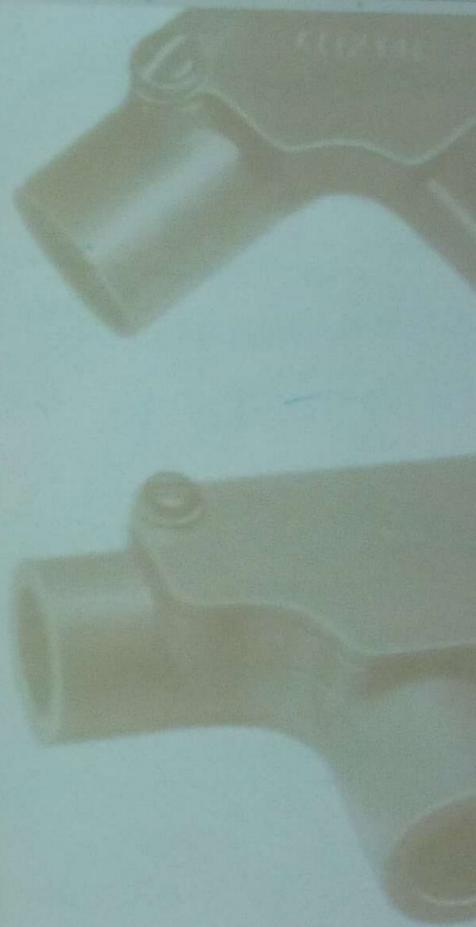
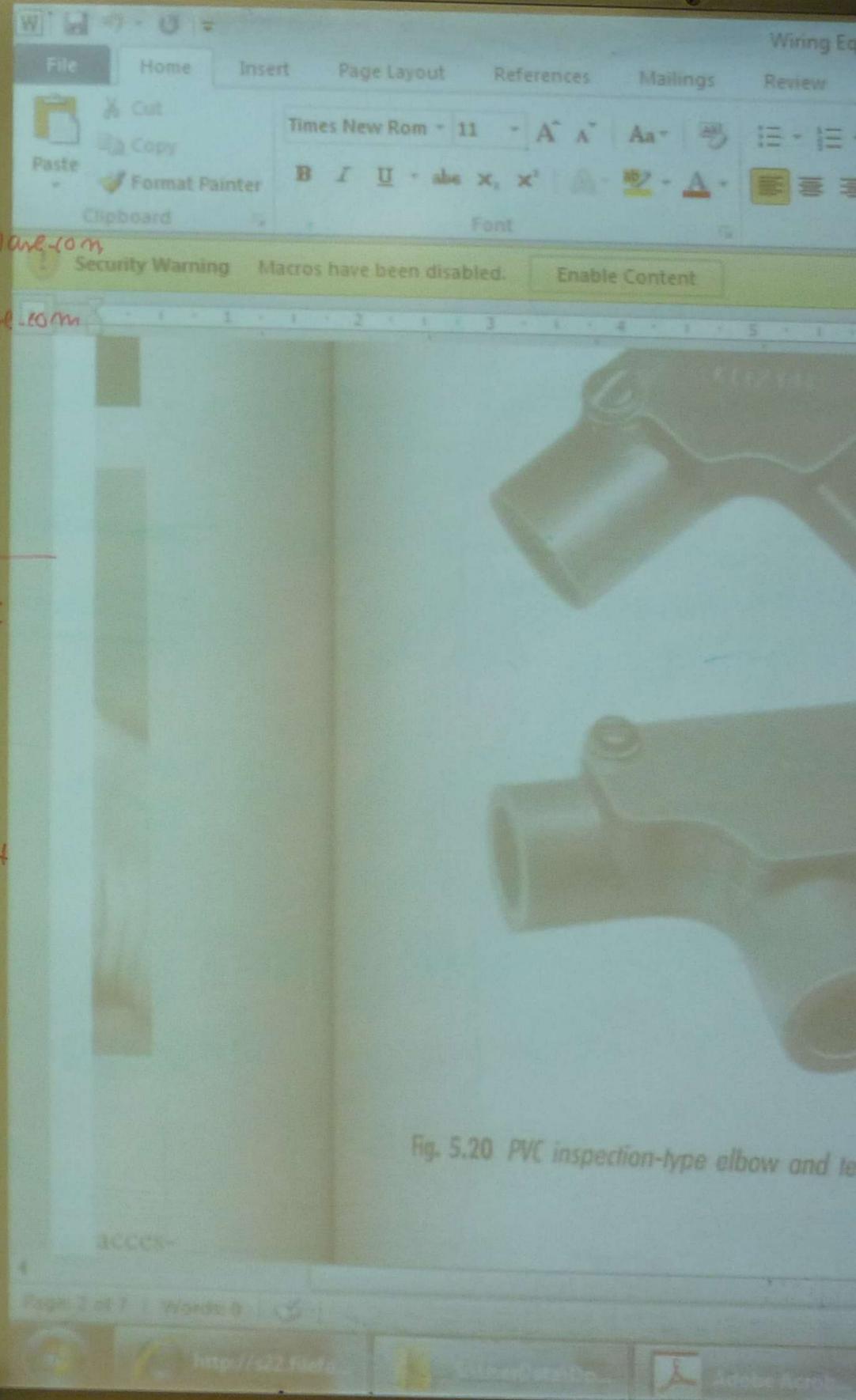


Fig. 5.20 PVC inspection-type elbow and te

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



(c)



(d)

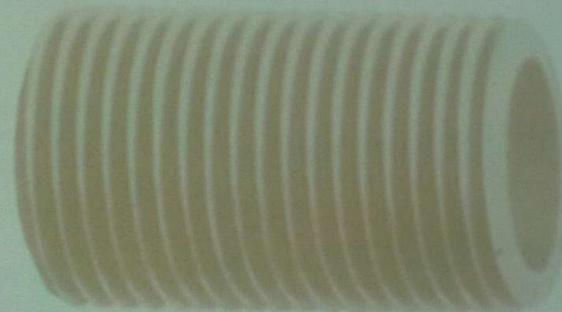


Fig. 5.20 PVC inspection-type elbow and tee GERARD INDUSTRIES

Wiring Equipments to purchase.doc [Compatibility Mode] - Microsoft Word

Home Insert Page Layout References Mailings Review View Add-Ins Acrobat

Times New Roman 11 A A Aa

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Fig. 5.2(b) A coach screw SPINNEY CABLES

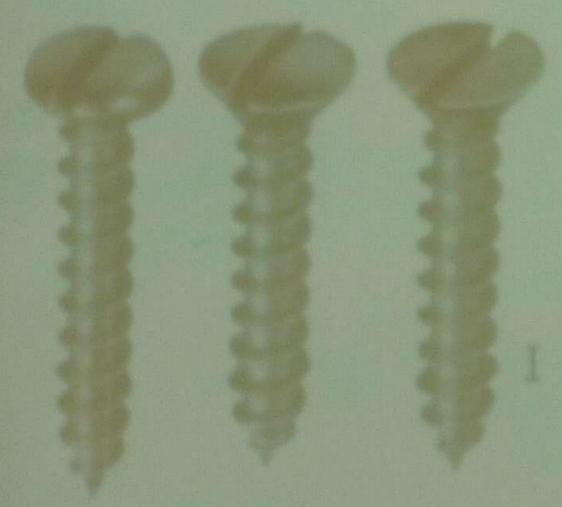
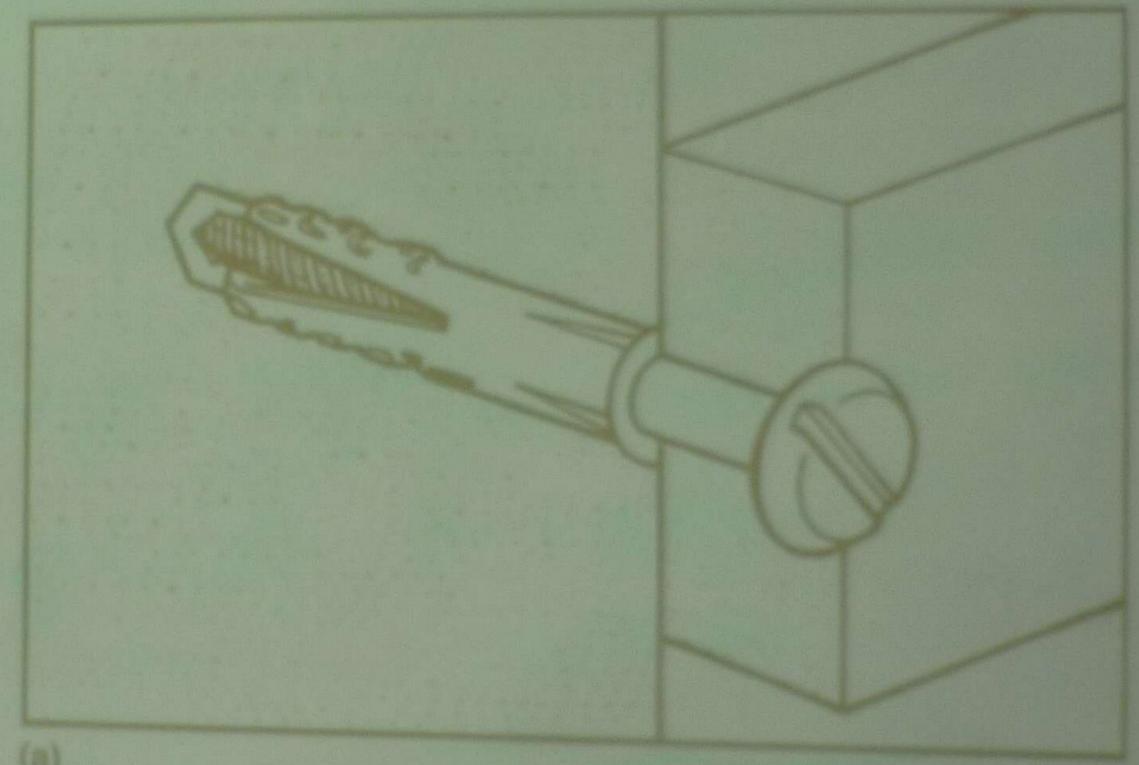
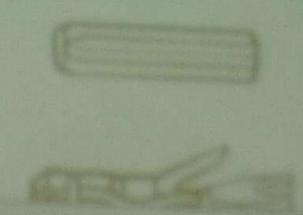


Fig. 5.2(c) Some self-tapping screws SPINNEY CABLES



(a)



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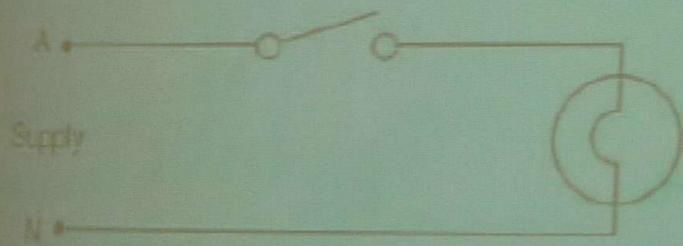
Windows taskbar showing icons for various applications and the system tray.

or batten holder is used, while in Figure 6.8 the looping is done at the switch. Both systems are commonly used and are employed in thermoplastic-sheathed (TPS) cable wiring and with single-insulated polyvinyl chloride (PVC) cables in PVC or steel conduit, where a 'draw-in' job is required. Refer to Chapter 4, section 4.6, for

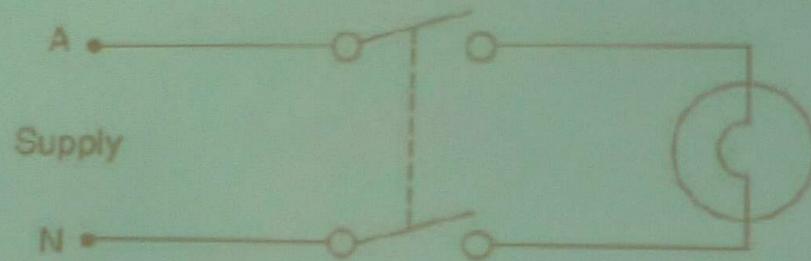
the looping is done at either the light fitting or the switch, whereas in Figure 6.10 both the switch and the light fitting are used for looping.

In Figure 6.11, all the joins are made in a junction box.

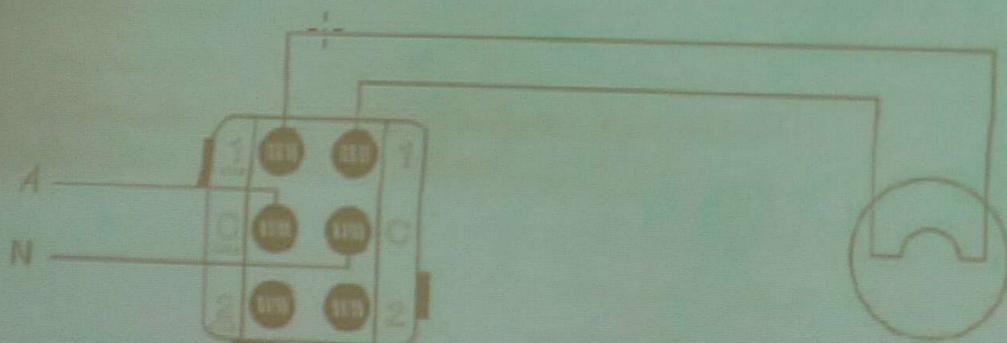
The loop-in system is usually preferable, but sometimes it is expedient to use a junction box provided in



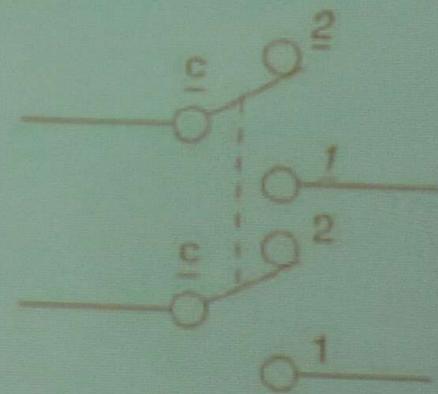
(a) Single-pole



(b) Double-pole



(c) Double-pole wiring diagram



Key: Switch in off position

Fig. 6.6 Single- and double-pole switching

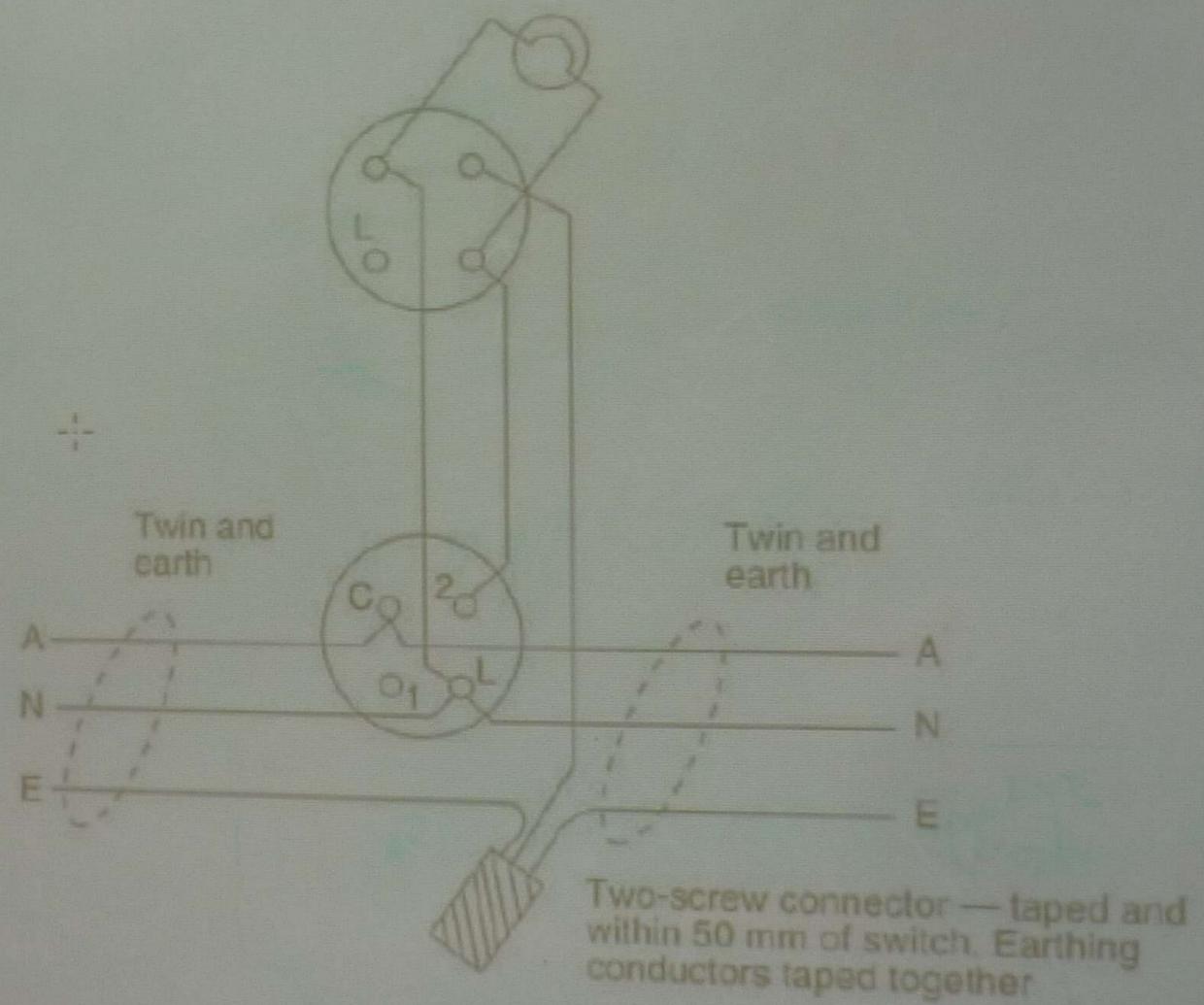


Fig. 6.8 Looping of switch using twin and earth cable

WIRING RULE

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AUSTRALIAN ELECTRICIAN TRAINING

WIRING RULE AS 3000 ← GENERAL WIRING

WIRING RULE AS 3008 ← CABLE SELECTION

AS 3000

PART (I) SCOPE / APPLICATION / FUNDAMENTAL PRINCIPLE

READ CLAUSE 1-4.4 ACTIVE CONDUCTOR

1-4.6 APPLIANCES

1-4.17 CABLE

1-4.14 → 1-4.24

{ CABLES }

1-4.25 - CIRCUIT

RAL WIRING
E SELECTION.

ION/FUNDAMENTAL

ACTIVE CONDUCTOR
APPLIANCES

CABLE

→ 1.4.24 { CABLES }

2S-CIRCUIT

1.4.46 ELECTRICAL EQUIPMENTS

1.4.51 ENCLOSURE

1.4.58 INSTALLATION COUPLER

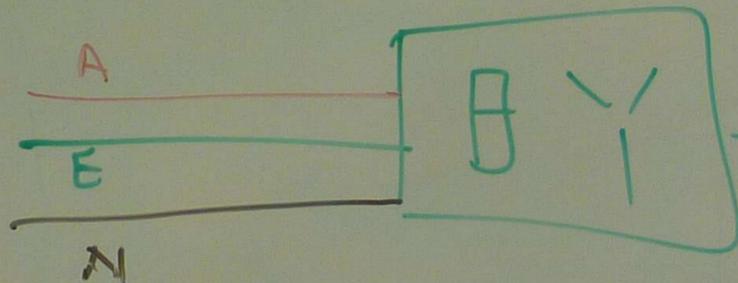
1.4.60 INSULATION SYSTEM — BASIC INSULATION
DOUBLE INSULATION

1.4.64 LUMINAIRES

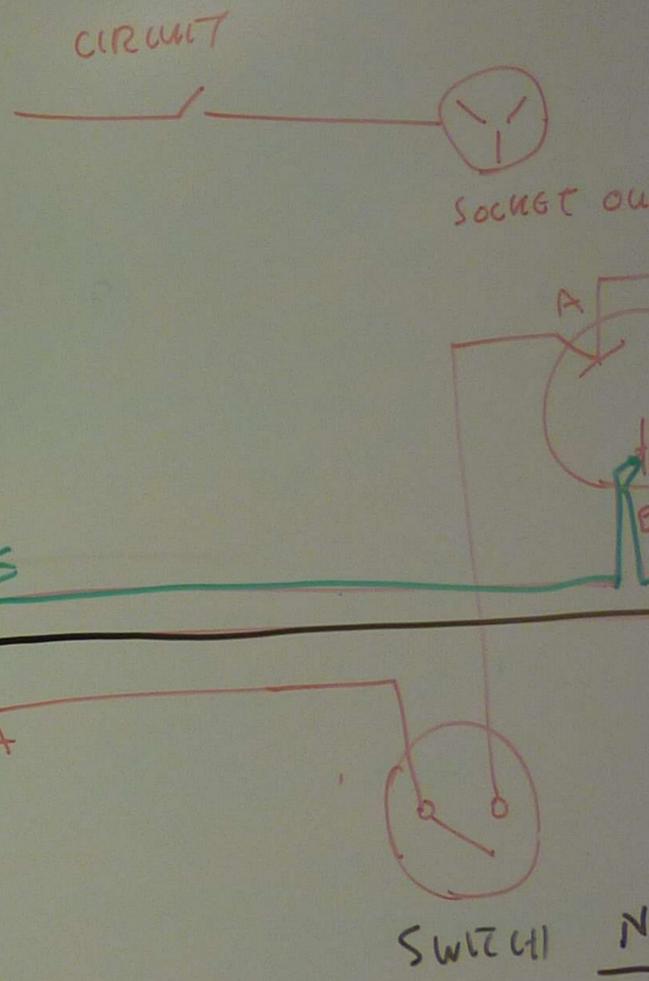
1.4.86 SOCKET OUTLET.

1.4.71 PLUG

1.4.72 POINT



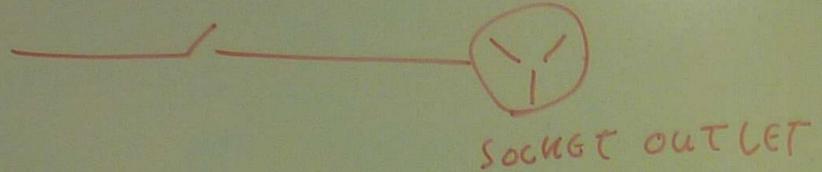
SOCKET OUTLET WIRING



SOCKET OUTLET WIRING CIRCUIT

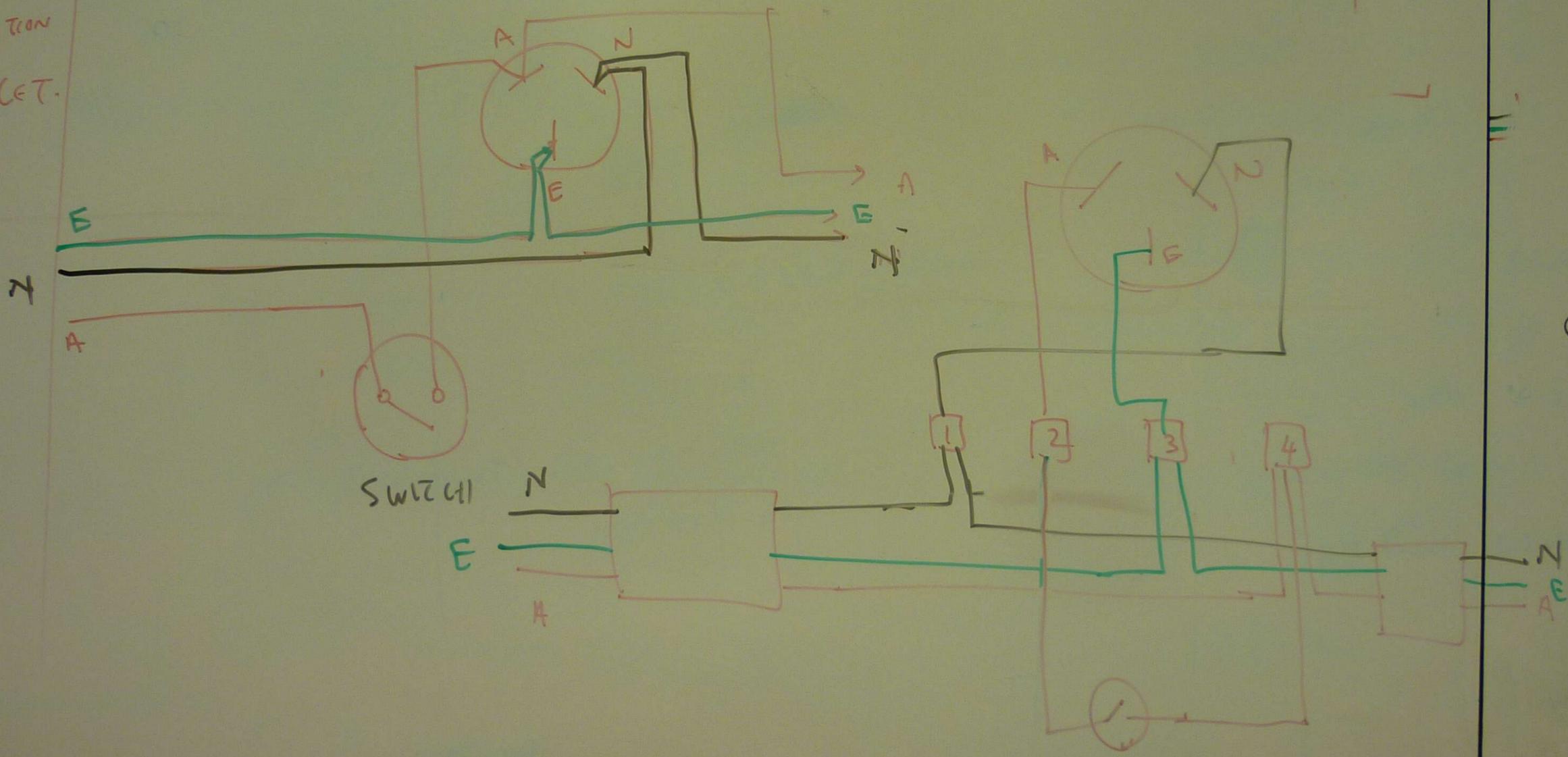
Q1

CIRCUIT



A - ACTIVE
N - NEUTRAL
E - EARTH

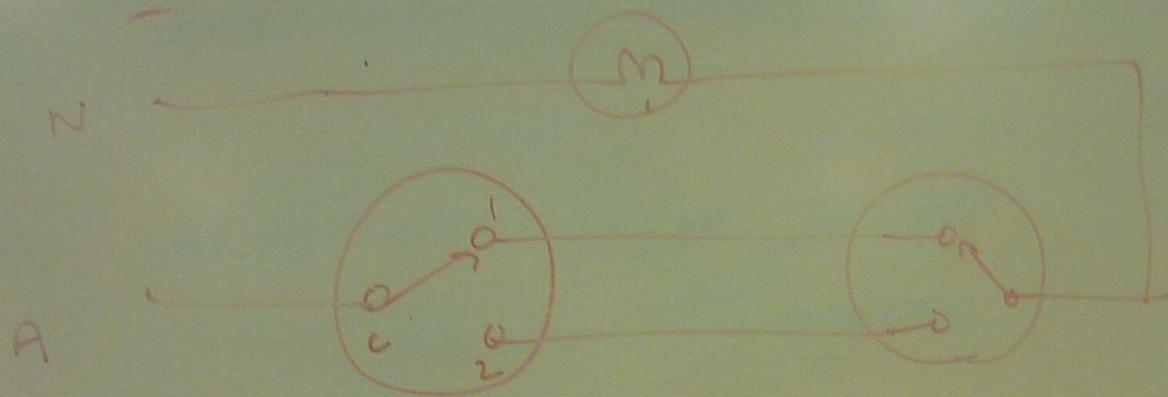
INSULATION
E INSULATION
ET OUTLET.



Q2

SWITCH
SUBTA
ACCE

TWO WAYS SWITCH



TWO SWITCHES CONTROL ONE LIGHT.

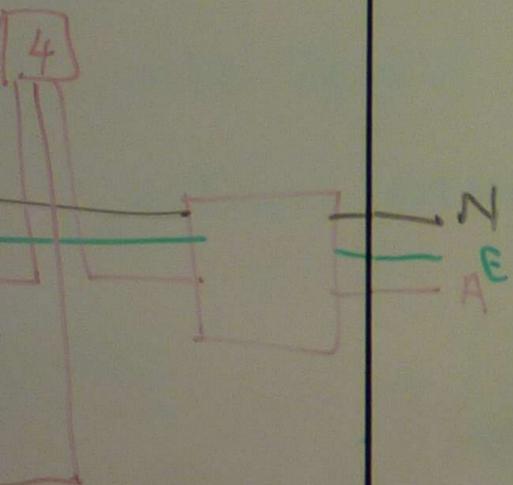
MAIN SWITCH BOARD

SWITCH BOARDS SHOULD BE INSTALLED IN A SUITABLE DRY WELL VENTILATED WHERE ACCESS IS NOT OBSTRUCTED

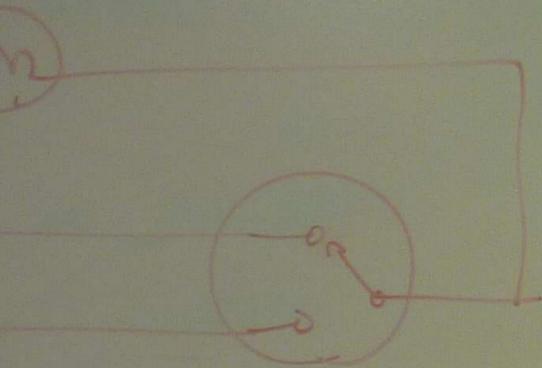
NO OF MAIN SWITCHES ON SWITCHBOARD SHALL NOT BE MORE THAN SIX

TUTORIAL

- ① SKETCH SOCKET OUTLET DIAGRAM.
- ② WHERE MAIN SWITCH BOARD BE INSTALLED?
- ③ DEFINE THE FOLLOWING:
 - (a) ACTIVE CONDUCTOR
 - (b) ENCLOSURE
 - (c) INSULATION SYSTEM
 - (d) PLUG
 - (e) POINT
 - (f) SOCKET OUTLET



TWO WAYS SWITCH



SWITCHES CONTROL ONE LIGHT.

SWITCH BOARD

SWITCHES SHOULD BE INSTALLED IN A WELL VENTILATED WHERE

NOT OBSTRUCTED

MAIN SWITCHES ON SWITCHBOARD NOT BE MORE THAN SIX

TUTORIAL

- ① SKETCH SOCKET OUTLET WIRING DIAGRAM.
- ② WHERE MAIN SWITCH BOARD SHOULD BE INSTALLED?
- ③ DEFINE THE FOLLOWINGS
 - (a) ACTIVE CONDUCTOR
 - (b) ENCLOSURE
 - (c) INSULATION SYSTEM
 - (d) PLUG
 - (e) POINT
 - (f) SOCKET OUTLET.