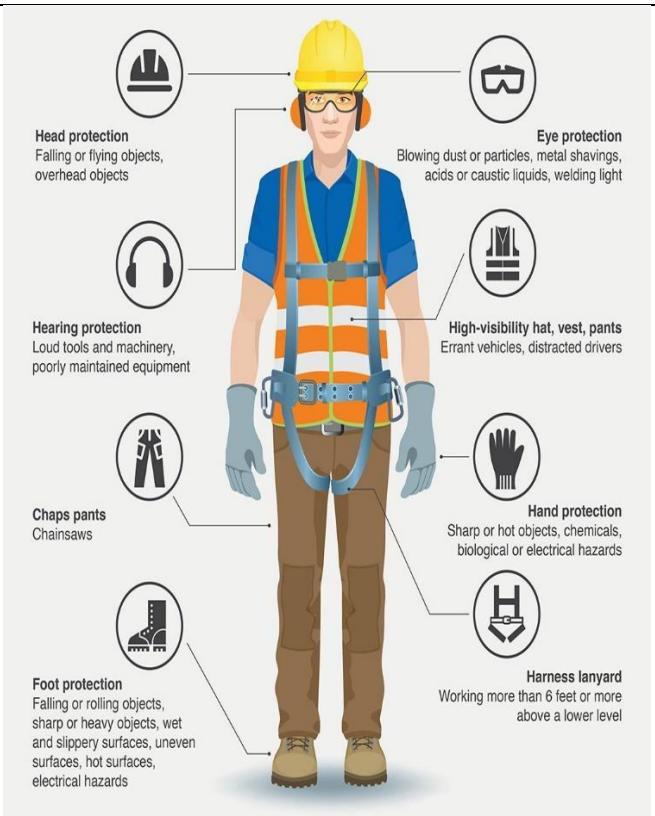
SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:1

MAIN TOPIC / CHAPTER: OCCUPATIONAL SAFETY AND HEALTH (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : SAFETY	__1ST____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-1

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Basic safety introduction		
2) Classification of safety	General safety, Personal safety, Machine safet	
3) Personal protection		
4)basic injury prevention		\SPITISERVER\electrician\COMMON\Electrician 1st sem video\Basic safety introduction
5)		
6)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:2

MAIN TOPIC / CHAPTER: OCCUPATIONAL SAFETY AND HEALTH (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : SAFETY	__2nd____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-1

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Basic first aid		
2) Hazard identification and avoidance		
3) safety signs for danger	Prohibition signs, Mandatory signs, Warning signs, Information signs	
4) Prohibition signs- Description about shape		
5) Mandatory signs- Description about shape		**Fig1**
6) Warning signs- Description about shape		**Fig2**
7) Information signs- Description about shape		**Fig3**
8)		
9)		
10)		
11)		

Fig 2

Waring sign

Fig 1

mandatory sign

Fig3

Information sign

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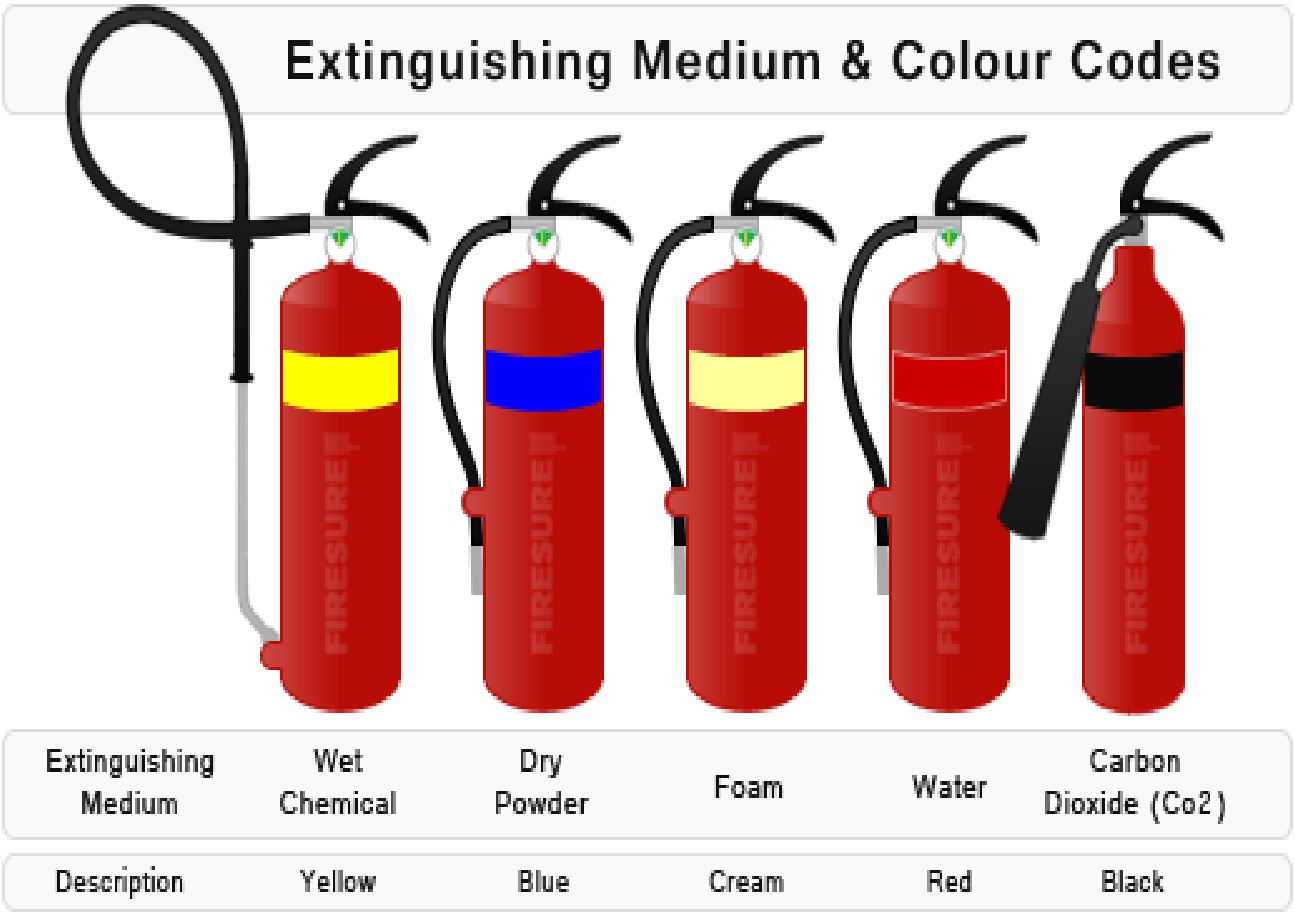
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:3

MAIN TOPIC / CHAPTER: OCCUPATIONAL SAFETY AND HEALTH (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : SAFETY	3rd CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-1

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) caution and personal safety message		
2) Type of fire extinguishers		**Fig4**
3) Use of various type fire extinguishers		
4) Visit and observation of sections		
5)		
6)		
7)		
8)		
9)		
10)		
11)		



Types of fire extingushier

Fig 4

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR. CLASS NO:4

MAIN TOPIC / CHAPTER: OCCUPATIONAL SAFETY AND HEALTH (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : SAFETY	4th_____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-1

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Various safety measures involved in the Industry		
2) Elementary first Aid		**Fig5**
3) Concept of Standard		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

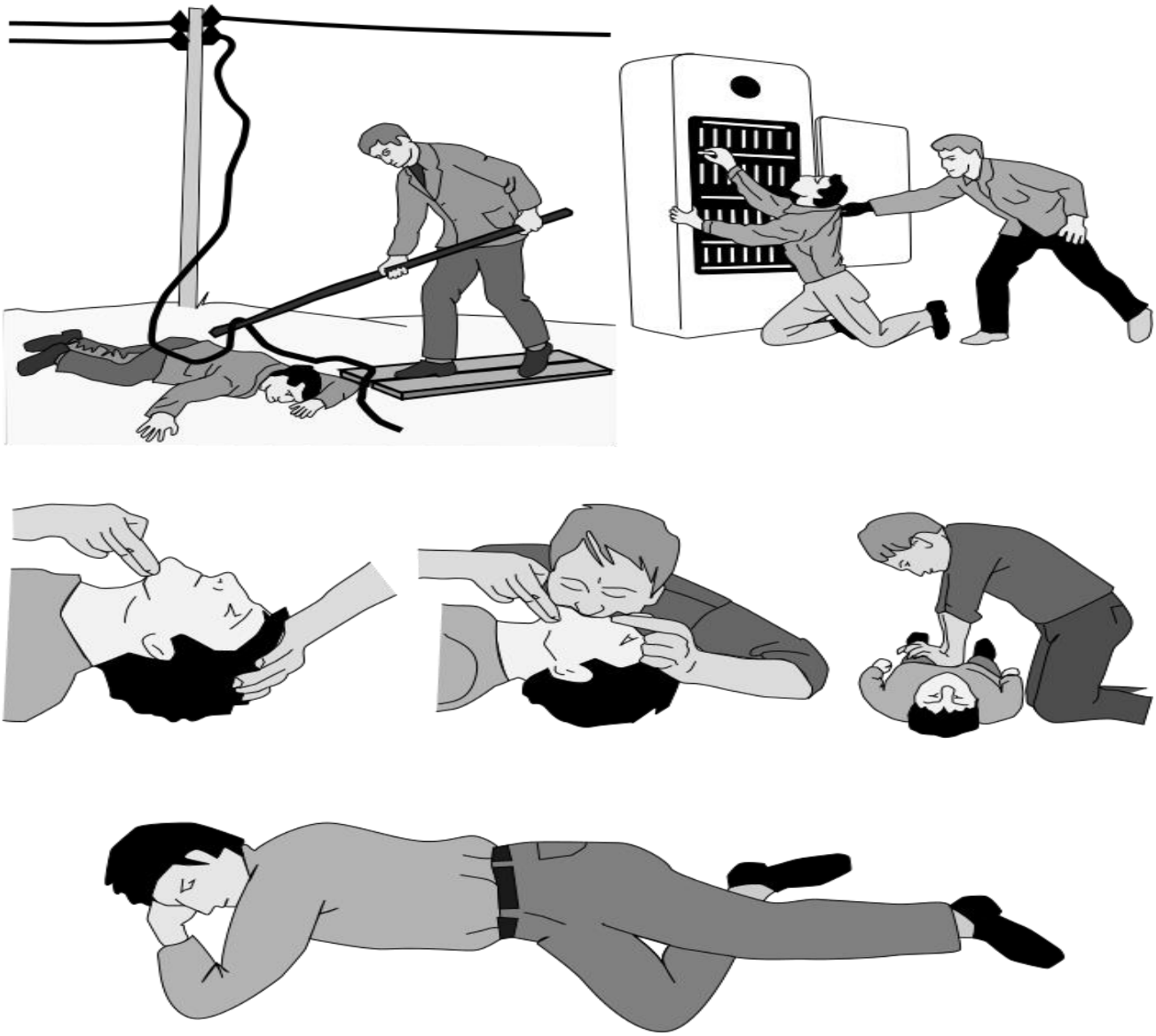

Fig5

Safty process of electrical accident

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:5

MAIN TOPIC / CHAPTER: SOFT SKILLS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:2
SUB TOPIC : SOFT SKILLS	__1ST____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-1

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Its importance and Job area after completion of training		
2) Introduction of First aid.		
3) Artificial respirationIntroductio		\SPITISERVER\electrician\COMMON\Electrician 1st sem video\Artificial respiration
4) Scaffer's method		CH 04 01 01 02 98
5) Silvester's method		CH 04 01 01 03 98
6) Mouth to mouth respiration		CH 04 01 01 04 98
7) Operation of electrical mains		
8)		
9)		
10)		
11)		
12)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:6

MAIN TOPIC / CHAPTER: SOFT SKILLS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : SOFT SKILLS	__2nd____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-1

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction of PPEs.		
2) Introduction to 5S concept & its application		\SPITISERVER\electrician\COMMON\Electrician 1st sem video\5s concept
3) Response to emergencies	Power failure, Fire and System failure	
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:7

MAIN TOPIC / CHAPTER: IDENTIFICATION OF TRADE-HAND TOOLS SPECIFICATIONS , USES AND THEIR CARE MAINTENANCE (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : COMBINATION PLIERS, FLAT NOSE PLIERS & LONG NOSE PLIERS	__1ST____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-2

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction about trade hand tools	Combination pliers, Flat nose pliers, Long nose pliers, Screwdriver etc	
2) Combination pliers- Draw and Identification		**Fig6**
3) Combination pliers-Description		
4Combination pliers-Care and maintenance		
5) Flat nose pliers - Draw and Identification		**Fig7**
6) Flat nose pliers- Care and maintenance		
7) Long nose pliers- Draw and Identification		**Fig8**
8) Long nose pliers-Description		
9)) Long nose pliers-Care and maintenance		
10)		
11)		
12)		

Fig6

Combination pliers

fig7

flat nose pliers

Fig 8

Long nose pliers

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:8

MAIN TOPIC / CHAPTER: IDENTIFICATION OF TRADE-HAND TOOLS SPECIFICATIONS , USES AND THEIR CARE MAINTENANCE (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : SIDE CUTTING PLIERS, ROUND NOSE PLIERS , SCREWDRIVER & NEON TESTER	__2ND____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-2

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Side cutting pliers- Draw and Identification		**Fig9**
2) Side cutting pliers-Description		
3) Side cutting pliers-Care and maintenance		
4) Round nose pliers- Draw and Identification		**Fig10**
5) Round nose pliers-Description		
6) Round nose pliers-Care and maintenance		
7) Screwdriver - Draw and Identification		**Fig11**
8) Screwdriver - pliers-Description		
9) Screwdriver -Care and maintenance		
10) Neon tester- Draw and Identification		**Fig12**
11) Neon tester –Description		
12) Neon tester -Care and maintenance		

Fig9

Side cutting pliers

Fig10

round nose pliers

Fig11

Neon tester

fig12

screw driver

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:9

MAIN TOPIC / CHAPTER: IDENTIFICATION OF TRADE-HAND TOOLS SPECIFICATIONS , USES AND THEIR CARE MAINTENANCE (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : ELECTRICIAN KNIFE, HAMMER, TRY SQUARE & FIRMER CHISEL	__3RD___CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-2

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Electrician knife- Draw and Identification		**Fig13**
2) Electrician knife –Description		
3) Electrician knife -Care and maintenance		
4) Hammer- Draw and Identification		**Fig14**
5) Hammer –Description		
6) Hammer -Care and maintenance		
7) Try square- Draw and Identificatio		**Fig15**
8) Try square –Description		
9) Try square -Care and maintenance		
10) Firmer Chisel - Draw and Identification		**Fig16**
11) Firmer Chisel -Description		
12) Firmer Chisel -Care and maintenance		

Fig13

Electrician knife

Fig14

hammer

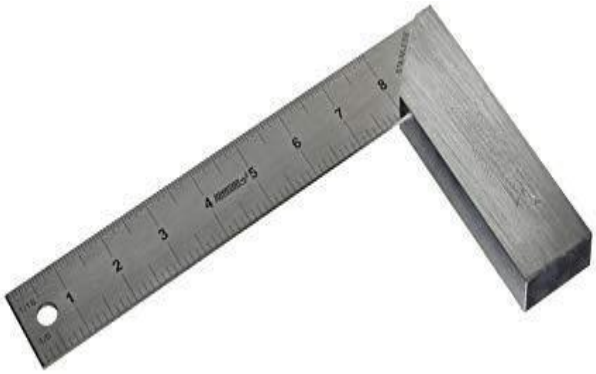

Fig 15

Try square

Fig 16

firmer chisel

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:10

MAIN TOPIC / CHAPTER: IDENTIFICATION OF TRADE-HAND TOOLS SPECIFICATIONS , USES AND THEIR CARE MAINTENANCE. (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : SAFETYTENON SAW, WOOD RASP FILE, FILES & PLUMB BOB.	__4TH____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-2

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Tenon saw- Draw and Identification		**Fig 17**
2) Tenon saw -Description		
3) Tenon saw -Care and maintenance		
4) Wood rasp file - Draw and Identification		**Fig 18**
5) Wood rasp file -Description		
6) Wood rasp file -Care and maintenance		
7) Files - Draw and Identification		**Fig 19**
8) Files -Description		
9) Files -Care and maintenance		
10) Plumb bob- Draw and Identification		**Fig 20**
11) Plumb bob –Description		
12) Plumb bob-Care and maintenance		

Fig 17

Tenon saw

Fig 19

all types of file

Fig 18

Wood rasp file

Fig 19

plumb bob

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:11

MAIN TOPIC / CHAPTER: IDENTIFICATION OF TRADE-HAND TOOLS SPECIFICATIONS , USES AND THEIR CARE MAINTENANCE. (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : POKER, GIMLET, CENTRE PUNCH & MALLET	__5TH____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-3

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Poker - Draw and Identification		**Fig20**
2) Poker -Description		
3) Poker -Care and maintenance		
4) Gimlet - Draw and Identification		**Fig21**
5) Gimlet - Description		
6) Gimlet - Care and maintenance		
7) Centre punch - Draw and Identification		**Fig22**
8) Centre punch - Description		
9) Centre punch - Care and maintenance		
10) Mallet - Draw and Identification		**Fig23**
11) Mallet - Description		
12) Mallet - Care and maintenance		

Fig20

Poker

Fig21

gimlet

Fig22

Center punch

Fig23

mallet

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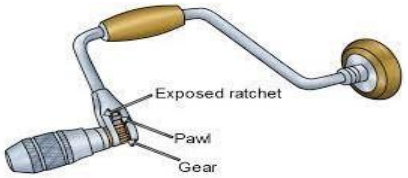
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:12

MAIN TOPIC / CHAPTER: OCCUPATIONAL SAFETY AND HEALTH (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : SAFETY	__1ST____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-1

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Ratchet brace- Draw and Identification		
2) Ratchet brace – Description		
3) Ratchet brace - Care and maintenance		
4) Flat cold chisel - Draw and Identification		
5) Flat cold chisel – Description		
6) Flat cold chisel - Care and maintenance		
7) Rawl plug tool & bit - Draw and Identification		
8) Rawl plug tool & bit – Description		
9) Rawl plug tool & bit - Care and maintenance		
10) Spanner - Draw and Identification		
11)) Spanner - Description		
12) Spanner - Care and maintenance		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:13

MAIN TOPIC / CHAPTER: OCCUPATIONAL SAFETY AND HEALTHIDENTIFICATION OF TRADE-HAND TOOLS SPECIFICATIONS , USES AND THEIR CARE MAINTENANCE. (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : SAFETY RING SPANNER SET,SOCKET SPANNER, SINGLE ENDED OPEN JAW ADJUSTABLE SPANNER SET & MEASURING STEEL TAPE	__7TH____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-3

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Ring Spanner Set - Draw and Identification		
2) Ring Spanner Set – Description		
3) Ring Spanner Set - Care and maintenanc		
4) Socket spanner- Draw and Identification		
5) Socket spanner – Description		
6) Socket spanner - Care and maintenanc		
7) Single ended open jaw adjustable spanner set - Draw and Identification		
8) Single ended open jaw adjustable spanner set – Description		
9Single ended open jaw adjustable spanner set - Care and maintenance)		
10) Measuring steel tape - Draw and Identification		
11) Measuring steel tape - Description		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:14

MAIN TOPIC / CHAPTER: IDENTIFICATION OF TRADE-HAND TOOLS SPECIFICATIONS , USES AND THEIR CARE MAINTENANCE (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : HACKSAW,PINCERS,HAND DRILL, PORTABLE ELECTRIC DRILLING MACHINE	_8TH____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-3

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Hacksaw- Draw and Identification		
2) Hacksaw – Description		
3) Hacksaw - Care and maintenance		
4) Pincers - Draw and Identification		
5) Pincers – Description		
6) Pincers - Care and maintenance		
7) Hand drill- Draw and Identification		
8) Hand drill – Description		
9) Hand drill - Care and maintenance		
10) Portable electric drilling machine- Draw and Identification		
11) Portable electric drilling machine - Description		
12) Portable electric drilling machine - Care and maintenance		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:15

MAIN TOPIC / CHAPTER: IDENTIFICATION OF TRADE-HAND TOOLS SPECIFICATIONS , USES AND THEIR CARE MAINTENANCE (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : RIVETS	__9TH____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-3

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Rivets-Introduction		
2) Types of rivets	Flat head rivet, Round head rivet, Countersunk head rivet	
3) Tinmen's rivet, Flat head rivet, Round head rivet, Countersunk head rivet- brief description.		
4) Size of rivets		
5) Machine screws-Introduction		
6) Types of Machine screws & brief description.		
7) Types of clamps & brief description.		
8) Nut & Bolts		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:16
MAIN TOPIC / CHAPTER: FUNDAMENTAL OF ELECTRICITY. ELECTRON THEORY- FREE ELECTRON, FUNDAMENTAL TERMS, DEFINITIONS, UNITS & EFFECTS OF ELECTRIC CURRENT (NSQF LEVEL – 5)		NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : FUNDAMENTAL OF ELECTRICITY SAFETY		__1ST____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS		NCVT MAIN TOPIC WEEK NO-4

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Example of electric current & static electricity	Domestic electric supply & industrial electric supply	\\SPITISERVER\electrician\COMMON\Electrician 1st sem video\Electric current
3) Atomic Structure		\\SPITISERVER\electrician\COMMON\Electrician 1st sem video\Electric current
4) Brief description about conductors	Silver,Copper,Aluminium etc	
5) Brief description about insulators	Air, Glass, Rubber etc	
6) Brief description about semiconductors	Silicon, Germanium etc.	
7)		
8)		
9)		
10)		
11)		

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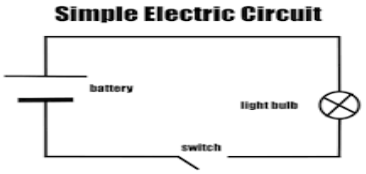
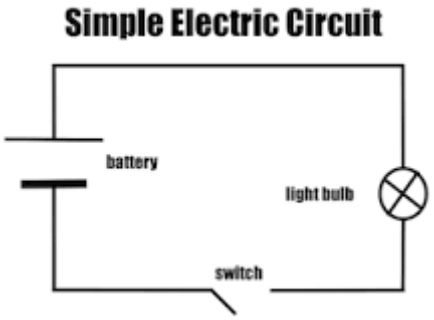
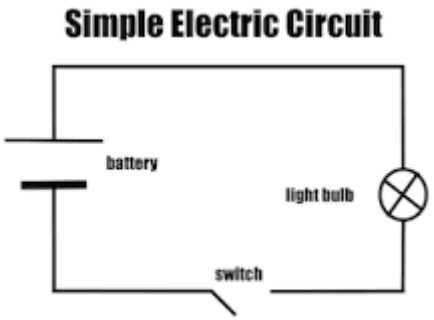
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:17

MAIN TOPIC / CHAPTER: FUNDAMENTAL OF ELECTRICITY. ELECTRON THEORY- FREE ELECTRON, FUNDAMENTAL TERMS, DEFINITIONS, UNITS & EFFECTS OF ELECTRIC CURRENT (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : SIMPLE ELECTRIC CIRCUIT AND ITS ELEMENT.	__2ND____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-3

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Circuit diagram of simple electric circuit and Description		
3) Connection diagram of ammeter		
4) Measurement of ampere		
5) Connection diagram of voltmeter		
6) Measurement of voltage		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:18

MAIN TOPIC / CHAPTER: FUNDAMENTAL OF ELECTRICITY. ELECTRON THEORY- FREE ELECTRON, FUNDAMENTAL TERMS, DEFINITIONS, UNITS & EFFECTS OF ELECTRIC CURRENT (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : SIMPLE ELECTRIC CIRCUIT AND ITS ELEMENT.	_3RD____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-3

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Description about resistance		
2) Measurement of resistance		
3) International Ohm, Ampere & Volt		
4) Conductance		
5) Electromotive force(emf)		\SPITISERVER\electrician\COMMON\Electrician 1st sem video\Electromotive force
6) Terminal voltage		
7) Quantity of electricity		
8) Coulomb		
9)		
10)		
11)		
12)		

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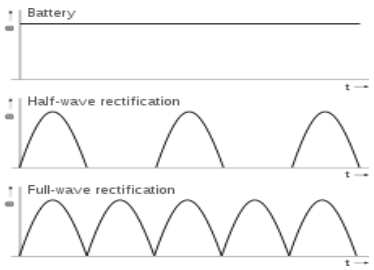
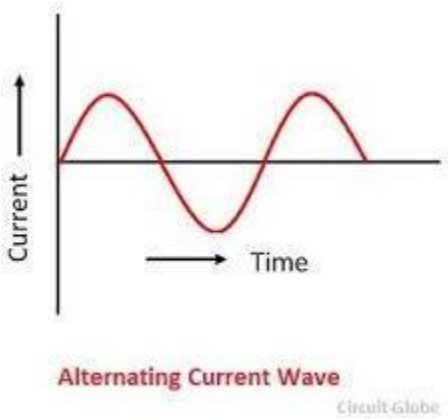
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:19

MAIN TOPIC / CHAPTER: FUNDAMENTAL OF ELECTRICITY. ELECTRON THEORY- FREE ELECTRON, FUNDAMENTAL TERMS, DEFINITIONS, UNITS & EFFECTS OF ELECTRIC CURRENT (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : TYPES OF ELECTRICAL SUPPLY	__4TH____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-3-4

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Types of electrical supply		
3) Description about DC electrical supply		SPITISERVER\electrician\COMMON\Electrician 1st sem video\DC electric supply
4) Circuit diagram & graphical representation of DC electrical supply		
5) Description about AC electrical supply		SPITISERVER\electrician\COMMON\Electrician 1st sem video\DC electric supply
6) Circuit diagram & graphical representation of AC electrical supply		

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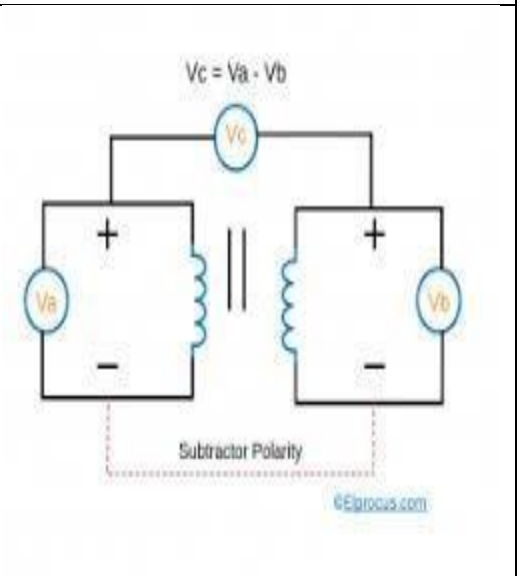
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR. CLASS NO:20

MAIN TOPIC / CHAPTER: FUNDAMENTAL OF ELECTRICITY. ELECTRON THEORY- FREE ELECTRON, FUNDAMENTAL TERMS, DEFINITIONS, UNITS & EFFECTS OF ELECTRIC CURRENT (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : POLARITY TEST IN DC	__5TH_____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-3-4

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Importance of polarity		
3) Testing polarity by MC meter		
4) Polarity of the battery		
5) Polarity of DC supply		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:21

MAIN TOPIC / CHAPTER: FUNDAMENTAL OF ELECTRICITY. ELECTRON THEORY- FREE ELECTRON, FUNDAMENTAL TERMS, DEFINITIONS, UNITS & EFFECTS OF ELECTRIC CURRENT (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : POLARITY TEST IN DC	__6TH_____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-3-4

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Marking made in practice		
2) Neon polarity indicator		
3) Chemical effect		
4) Heating effect		
5) Magnetic effect		
6) Gas ionization effect		
7) Special rays effect		
8) Shock effect		
9)		
10)		
11)		
12)		

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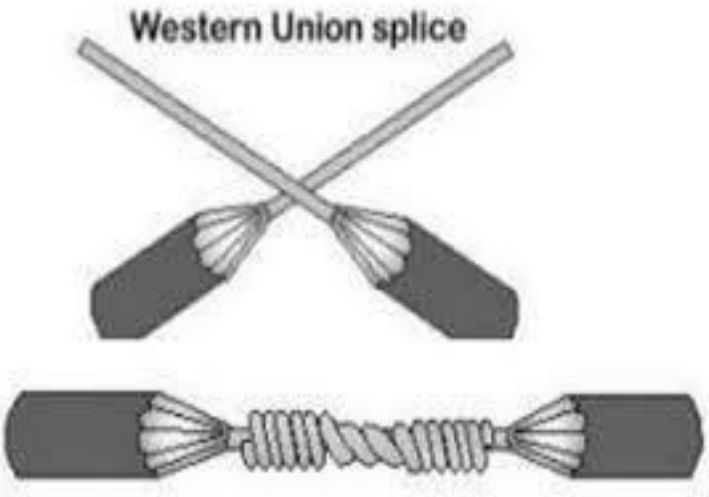
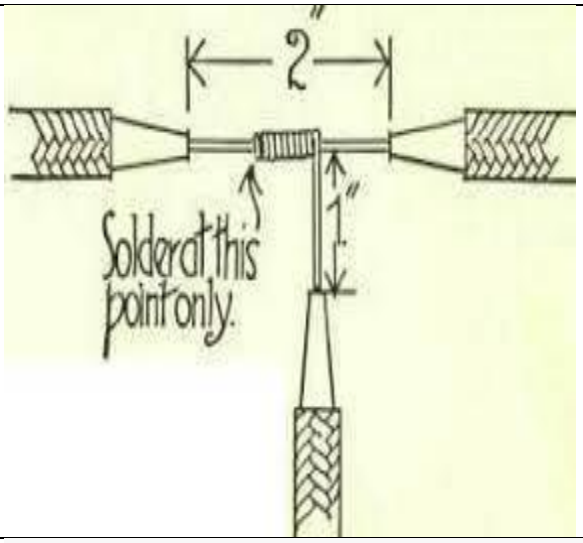
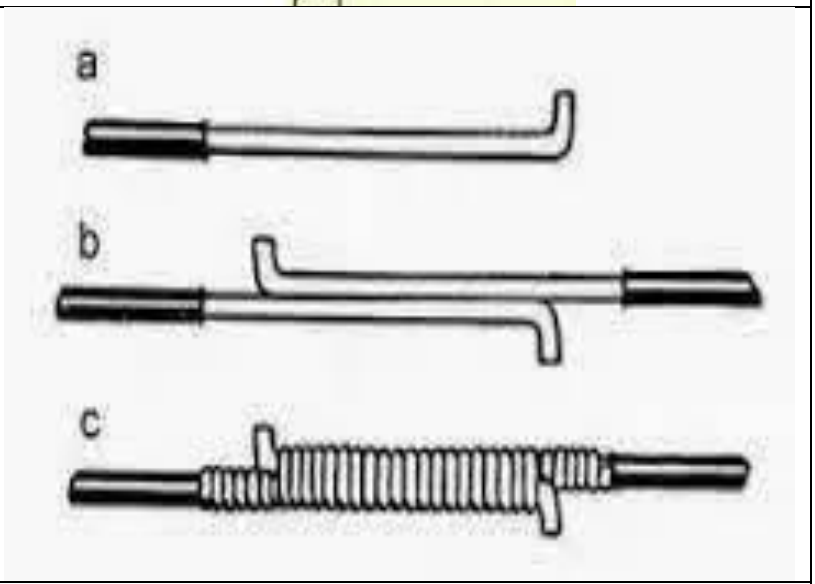
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:22

MAIN TOPIC / CHAPTERFUNDAMENTAL OF ELECTRICITY. ELECTRON THEORY- FREE ELECTRON, FUNDAMENTAL TERMS, DEFINITIONS, UNITS & EFFECTS OF ELECTRIC CURRENT (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : JOINTS IN ELECTRICAL CONDUCTOR	__7TH____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-1

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Handling		
3) Skinning of cables		
4) Connecting the cable ends		
5) Definition of joints		
6) Types of joints	Twisted joints, Married joints, Tee joints etc	
7) Twisted joint-Drawing & Description		

8) Married joint-Drawing & Description		
9) Tee joint-Drawing & Description		
10) Britannia joint-Drawing & Description		
11)		
12)		

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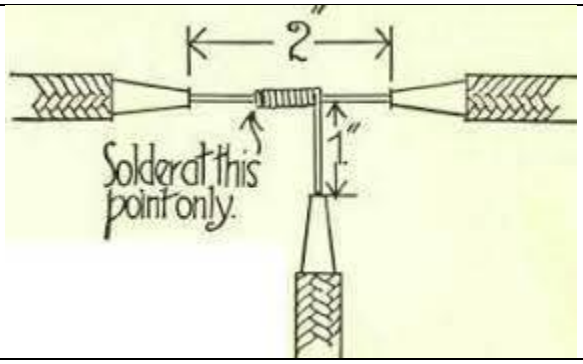
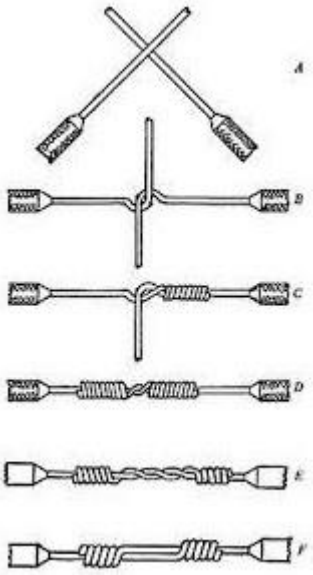
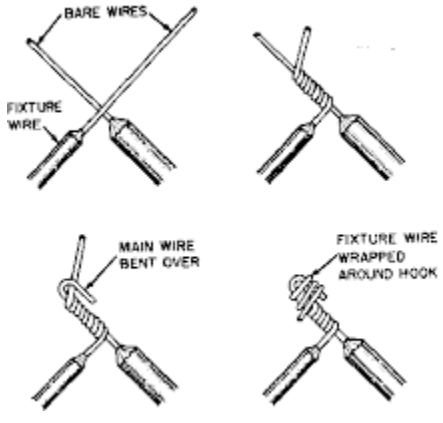
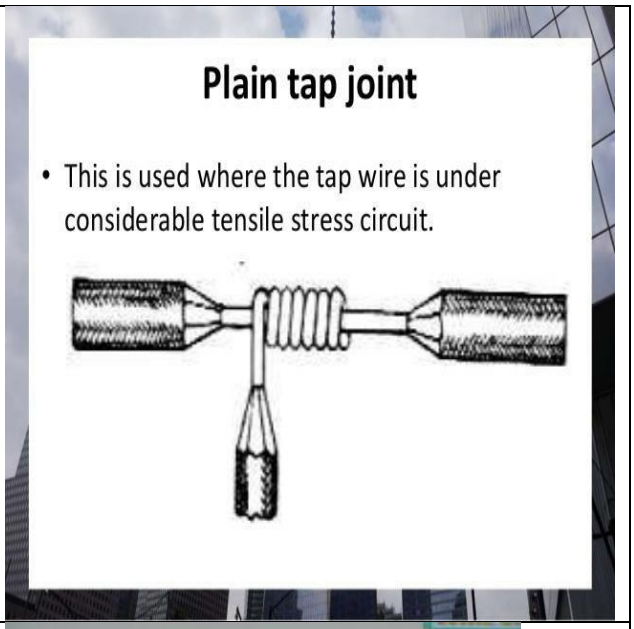
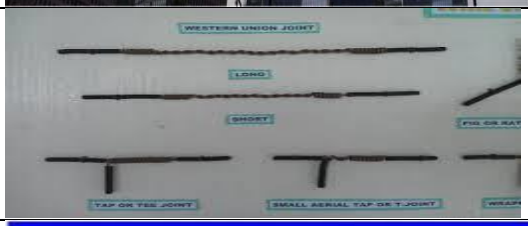
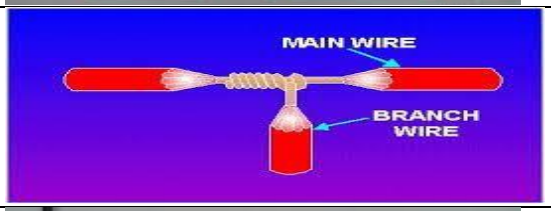
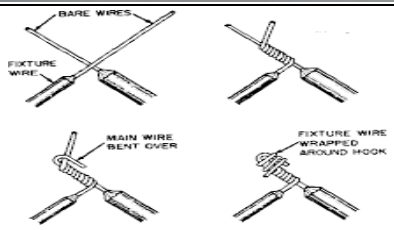
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:23

MAIN TOPIC / CHAPTER: FUNDAMENTAL OF ELECTRICITY. ELECTRON THEORY- FREE ELECTRON, FUNDAMENTAL TERMS, DEFINITIONS, UNITS & EFFECTS OF ELECTRIC CURRENT (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : JOINTS IN ELECTRICAL CONDUCTOR	__8TH____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-3-4

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Britannia tea joint-Drawing & Description		
2) Western union joint-Drawing & Description		
3) Scarfed joint-Drawing & Description		

4) Plain tap joint-Drawing & Description		
5) Aerial tap joint-Drawing & Description		
6) Knotted tap joint-Drawing & Description		
7) Duplex cross tap joint-Drawing & Description		
8) Double cross tap joint-Drawing & Description		
9)		
10)		
11)		
12)		

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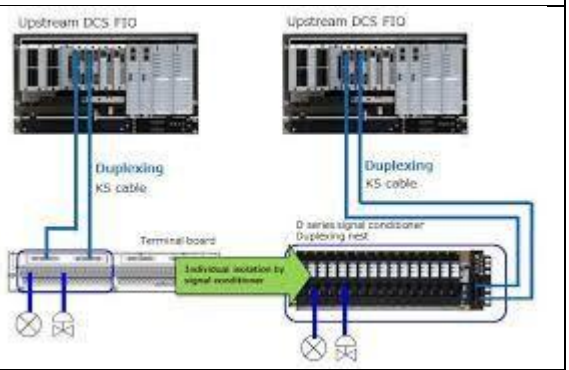
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:24

MAIN TOPIC / CHAPTER: FUNDAMENTAL OF ELECTRICITY. ELECTRON THEORY- FREE ELECTRON, FUNDAMENTAL TERMS, DEFINITIONS, UNITS & EFFECTS OF ELECTRIC CURRENT (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : CABLE END TERMINATION	__9TH____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-4-5

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Types of termination	Insert type, Arrow type, R type et	
3) Drawing of connection process		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

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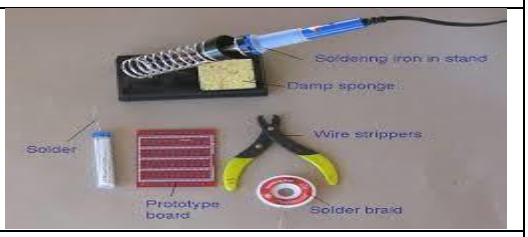
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR. CLASS NO:25

MAIN TOPIC / CHAPTER: FUNDAMENTAL OF ELECTRICITY. ELECTRON THEORY- FREE ELECTRON, FUNDAMENTAL TERMS, DEFINITIONS, UNITS & EFFECTS OF ELECTRIC CURRENT (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : SOLDERING PRACTICE	__1ST_____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-5

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Types of solder	Tinman's solder, Electrician's solder, Fine solder, Plumber's solder	
3) Choice of solder		
4) Soldering flux		
5) Soldering methods	Soldering with a soldering iron, Soldering with a soldering gun, Soldering with a flame, Dip soldering, Machine solderin	
6) Soldering with a soldering iron		
7) Soldering with a soldering gun		
8) Soldering with a flame		
9) Dip soldering		
10) Machine soldering		
11)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:26

MAIN TOPIC / CHAPTER: SOLDERS, FLUX AND SOLDERING TECHNIQUE. RESISTORS TYPES OF RESISTORS & PROPERTIES OF RESISTORS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : TECHNIQUES OF SOLDERING	__2ND___CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-6

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Soldering with electric soldering iron		
3) Selecting the bit		\
4) Care of bit		
5) Dressing the bit		
6) Cleaning the bit		
7) Soldering		
8) Techniques of soldering iron		SPITISERVER\electrician\COMMON\Electrician 1st sem video\DC electric supply
9)		
10)		
11)		
12)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:27

MAIN TOPIC / CHAPTER: SOLDERS, FLUX AND SOLDERING TECHNIQUE. RESISTORS TYPES OF RESISTORS & PROPERTIES OF RESISTORS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:
SUB TOPIC : SOLDERING ALUMINIUM CABLE	____3RD _ CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-6

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Soldering of aluminium cable		
2) Procedure for soldering aluminium		SPITISERVER\electrician\COMMON\Electrician 1st sem video\DC electric supply
3) Precaution		\
4) Safety		
5)		
6)		
7)		
8)		
9)		
10)		

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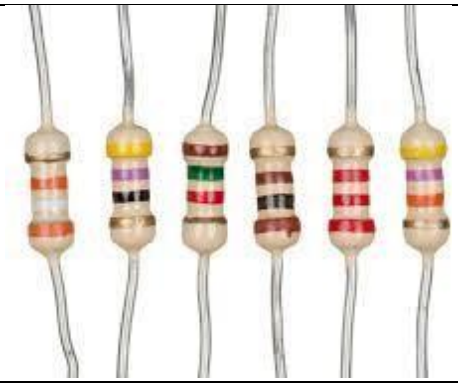
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:28

MAIN TOPIC / CHAPTER: SOLDERS, FLUX AND SOLDERING TECHNIQUE. RESISTORS TYPES OF RESISTORS & PROPERTIES OF RESISTORS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : RESISTORS	___4TH___CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-6

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Types of resister	Carbon composition resistor, Wire wound resistor, Film resistor & Printed resistor	
3) Construction		\
4) Power rating		
5) Resistor colour code		
6) Types of resistor lead	Axial lead, Radial lead, Terminal lugs.	
7) Properties of resistors		
8)		
9)		
10)		

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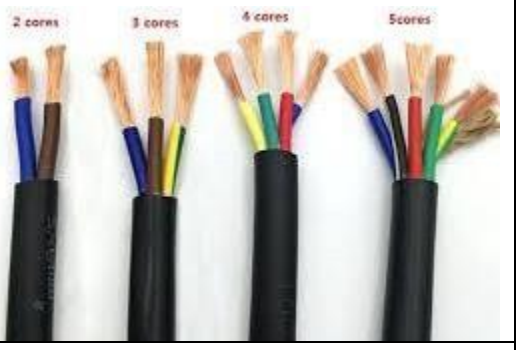
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:29

MAIN TOPIC / CHAPTER: INTRODUCTION OF NATIONAL ELECTRICAL CODE 2011 EXPLANATION, DEFINITION AND PROPERTIES OF CONDUCTORS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:3
SUB TOPIC : INTRODUCTION, PROPERTIES OF CONDUCTOR	___1ST___CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-6

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction of National Electrical Code 2011		
2) Explanation of National Electrical Code 2011		
3) Definition of conductors		\
4) Properties of conductors		
5) Definition of Insulators & example	Wood, Rubber, Glass etc	
6) Definition of Semi-conductors & example Germenium		
7)		
8)		
9)		
10)		

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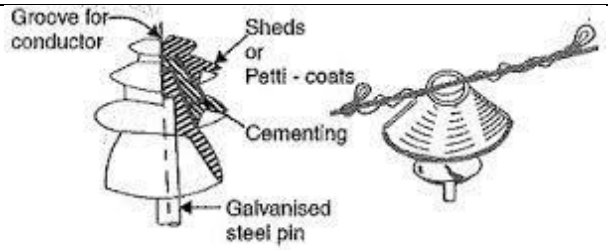
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:

MAIN TOPIC / CHAPTER: INTRODUCTION OF NATIONAL ELECTRICAL CODE 2011 EXPLANATION, DEFINITION AND PROPERTIES OF CONDUCTORS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:3
SUB TOPIC : INSULATORS & WIRES	_____2ND CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-6-7

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Voltage grading of different types of Insulators		 Fig. 8.5. Pin-type insulator
2) Temp rise permissible of different types of Insulators		
3) Properties of Insulator		\
4) Specification of wires		
5) Standard wire gauge		

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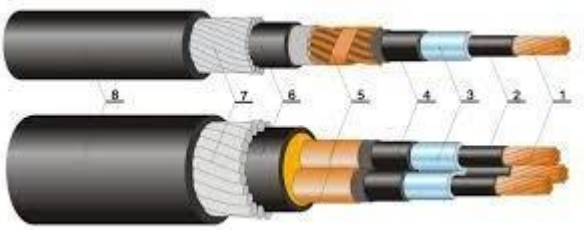
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:31

MAIN TOPIC / CHAPTER: INTRODUCTION OF NATIONAL ELECTRICAL CODE 2011 EXPLANATION, DEFINITION AND PROPERTIES OF CONDUCTORS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:
SUB TOPIC : TYPES OF CABLES	_3RD_____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-6-5

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Specification of cables insulation		
2) Voltage grades of cables - Low , medium & high voltage		
3) Precautions in using various types of cables		\
4) Precautions in using various types of Ferrules		
5)		
6)		
7)		
8)		
9)		
10)		

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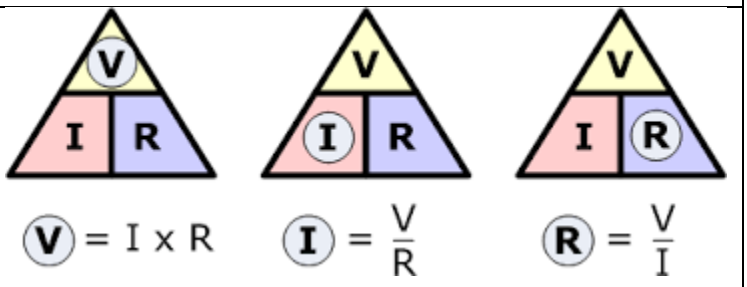
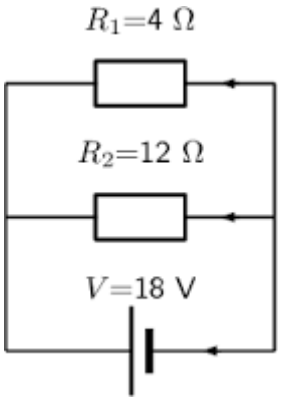
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:

MAIN TOPIC / CHAPTER: OHM'S LAW - SIMPLE ELECTRICAL CIRCUITS AND PROBLEMS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC :OHM'S LAW - SIMPLE ELECTRICAL CIRCUITS AND PROBLEMS	_1ST_____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-6-7

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Ohm's Law		
2) Simple electrical circuits		
3) Application of Ohm's Law in circuit		\\SPITISERVER\electrician\COMMON\Electrician 1st sem video Ohm's Law in circuit
4) Problems on electrical circuit		
5) Reading of simple Electrical Layout		

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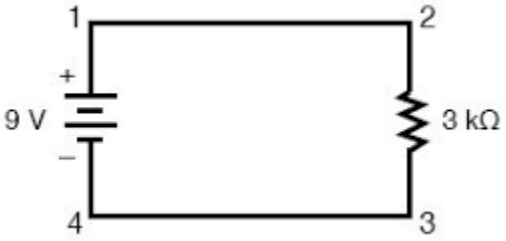
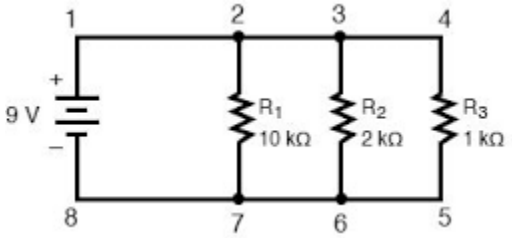
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:33

MAIN TOPIC / CHAPTER: OHM'S LAW - SIMPLE ELECTRICAL CIRCUITS AND PROBLEMS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC :	___2ND___CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-7

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Law of Resistance		
3) Series circuits		
4) parallel circuits		
5) Problems on series & parallel circuit		

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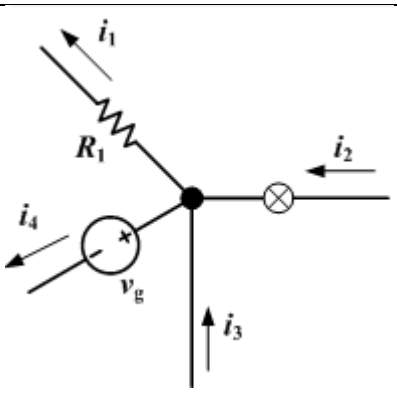
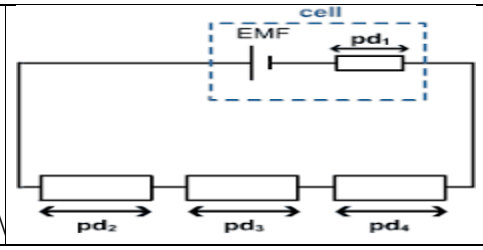
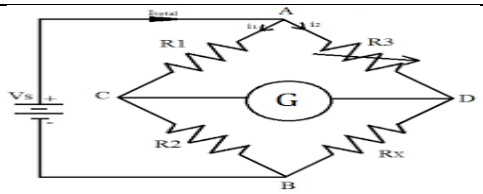
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:34

MAIN TOPIC / CHAPTER: OHM'S LAW - SIMPLE ELECTRICAL CIRCUITS AND PROBLEMS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : KIRCHOFF'S LAWS AND WHEATSTONE BRIDGE	_3RD_____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Kirchoff's 1st Laws		
2) Problem on Kirchoff's 1st Laws		
3) Kirchoff's 2nd Laws		
4) Problem Kirchoff's 2nd Laws		\\SPITISERVER\electrician\COMMON\Electrician 1st sem video Kirchoff's 2nd Laws
5) Wheatstone bridge principle		
6) Applications Wheatstone bridge		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:35

MAIN TOPIC / CHAPTER: OHM'S LAW - SIMPLE ELECTRICAL CIRCUITS AND PROBLEMS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : EFFECT OF VARIATION OF TEMPERATURE ON RESISTANCE & MEASURING THE VALUES OF RESISTANCE	___4TH___CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-6-7

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Effect of variation of temperature on resistance		
3) measuring the values of resistance		\
4)		
5)		
6)		
7)		
8)		
9)		
10)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:36

MAIN TOPIC / CHAPTER: COMMON ELECTRICAL ACCESSORIES (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : INTRODUCTION	_1ST____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-7-8

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Electrical accessories		\\SPITISERVER\electrician\COMMON\Electrician 1st sem video
3) Rating of accessories		\
4) Construction of accessories		
5) Mounting of accessories		
6)		
7)		
8)		
9)		
10)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:37

MAIN TOPIC / CHAPTER: COMMON ELECTRICAL ACCESSORIES (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : HOLDING ACCESSORIES	__2ND____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-7-8

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Holding accessories		
2) Explanation of switches, lamps, holders		
3) Description of plugs		
4) Developments of domestic circuits		

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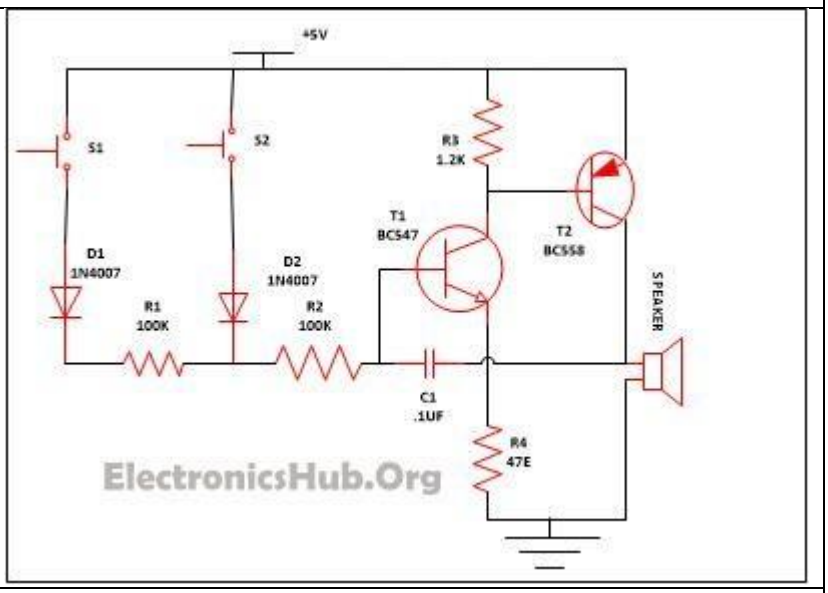
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:

MAIN TOPIC / CHAPTER: COMMON ELECTRICAL ACCESSORIES (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : ALARM & SWITCHES	___3RD___CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-8

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Description about alarm		
2) Circuit diagram of alarm		
3) Application of alarm		\
4) Description about switches		
5) Circuit diagram of switches		
6) Application of switches		
7) Two way switch		

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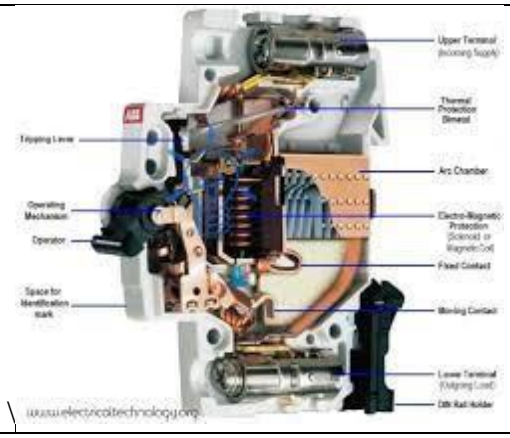
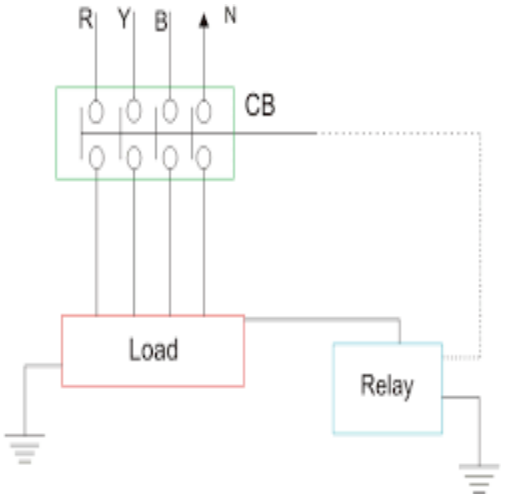
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:39

MAIN TOPIC / CHAPTER: COMMON ELECTRICAL ACCESSORIES (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : SECURITY SURVEILLANCE, FIRE ALARM, ELCB & MCCB	_4TH_____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-7-8

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)Security surveillance-Description & diagram		
2) Fire alarm-Description & diagram		
3) MCB-Description & diagram		
4) ELCB-Description & diagram		

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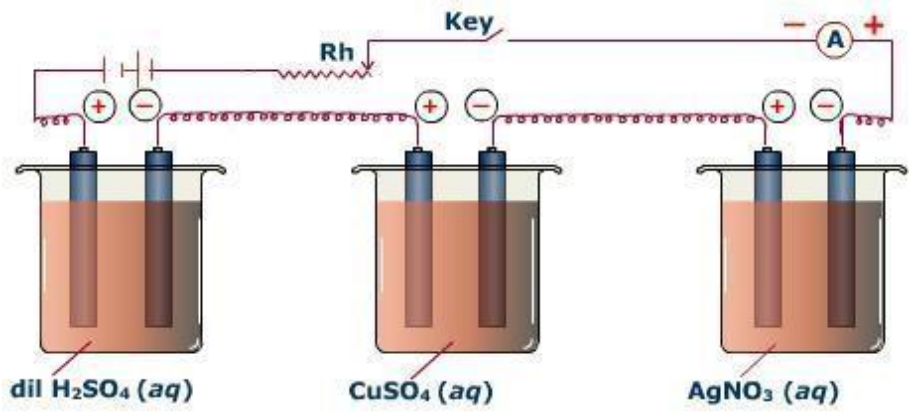
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:40

MAIN TOPIC / CHAPTER: CHEMICAL EFFECT OF ELECTRIC CURRENTPRINCIPLE OF ELECTROLYSIS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:3 :
SUB TOPIC : ELECTROLYSIS	____1ST _ CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-8-9

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		\\SPITISERVER\electrician\COMMON\Electrician 1st sem video
2) Chemical effect of electric current		
3) Principle of electrolysis		\
4) Faraday's Law of electrolysis		
5) Basic principles of Electro-plating and Electro chemical equivalents		

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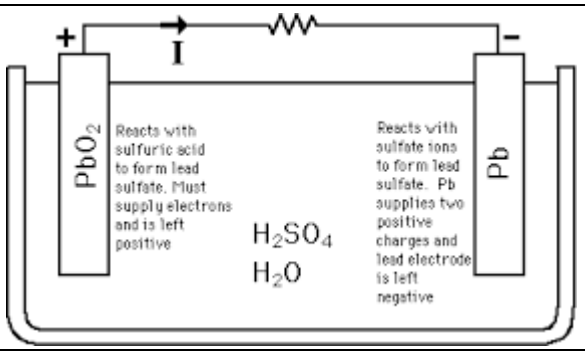
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:41

MAIN TOPIC / CHAPTER: CHEMICAL EFFECT OF ELECTRIC CURRENTPRINCIPLE OF ELECTROLYSIS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:3
SUB TOPIC : ELECTROLYSIS	__2ND___CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-9

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Explanation of Anodes		
2) Explanation of cathodes		
3) Lead acid cell-description		
4) Methods of charging		
5) Methods of charging	TRICKLE, BOOSTING , PARALLEL CHARGING METHOD	
6)		
7)		
8)		
9)		
10)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:42

MAIN TOPIC / CHAPTER: CHEMICAL EFFECT OF ELECTRIC CURRENT - PRINCIPLE OF ELECTROLYSIS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:3
SUB TOPIC : ELECTROLYSIS	__3RD___CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-8-9

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Ni-cadmium & Lithium cell		
2) Cathodic protection		\\SPITISERVER\electrician\COMMON\Electrician 1st sem video
3) Cathodic protection		\
4) Anodising		
5) Different types of lead acid cells		
6)		
7)		
8)		
9)		
10)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:

MAIN TOPIC / CHAPTER: RECHARGEABLE DRY CELL (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:2
SUB TOPIC : RECHARGEABLE DRY CELL	___1ST__CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-8-9

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Description about rechargeable dry cell		\\SPITISERVER\electrician\COMMON\Electrician 1st sem video
3) Advantages and disadvantages		\
4)		
5)		
6)		
7)		
8)		
9)		
10)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:44

MAIN TOPIC / CHAPTER: RECHARGEABLE DRY CELL (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:2
SUB TOPIC : RECHARGEABLE DRY CELL	___2ND___CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-8-9

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Care and maintenance of cells		
2) Grouping of cells of specified voltage & current		
3) Sealed Maintenance free Batteries		\
4) Solar battery		
5)		
6)		
7)		
8)		
9)		
10)		

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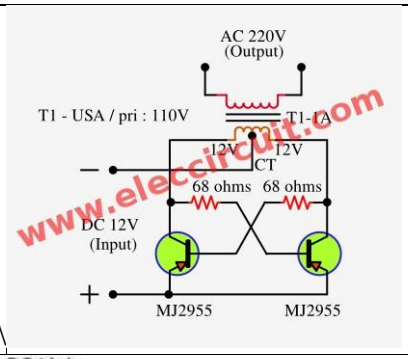
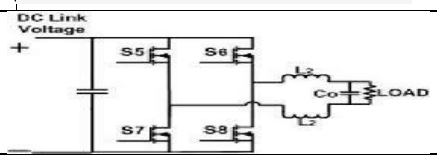
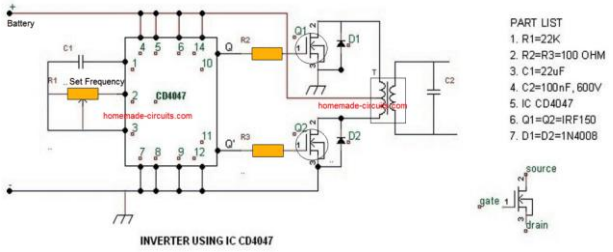
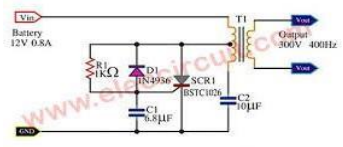
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:45

MAIN TOPIC / CHAPTER: INVERTER, BATTERY CHARGER, UPS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:
SUB TOPIC : INVERTER,	__1ST____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-9-10

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Type of inverter	Single transistor inverter, Driven inverter, The two transformer inverter, Inverter using SCRs	\\SPITISERVER\electrician\COMMON\Electrician 1st sem video inverter
3) Single transistor inverter- Description & diagram		
4) Driven inverter- Description & diagram		
5) The two transformer inverter- Description & diagram		
6) Inverter using SCRs- Description & diagram		
7)		

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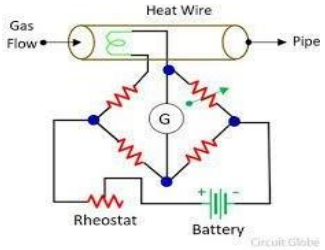
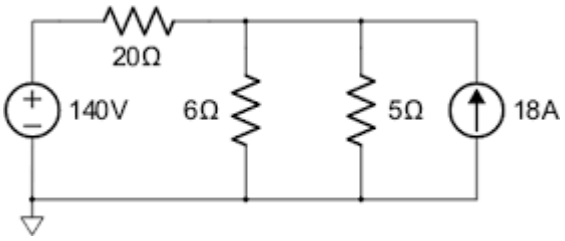
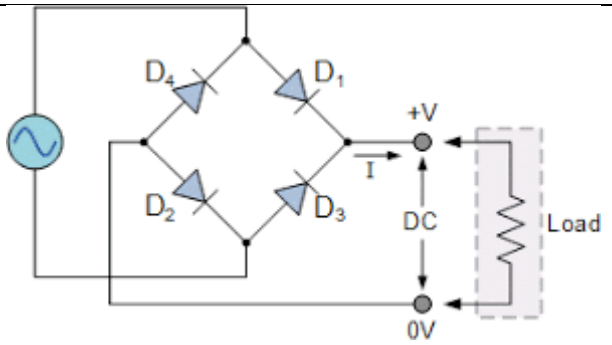
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:46

MAIN TOPIC / CHAPTER: INVERTER, BATTERY CHARGER, UPS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : BATTERY CHARGER	_____2ND CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-9-10

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) BATTERY CHARGER		
2) Battery charger		
3) Charging method	Constant current method, constant potential method, rectifier method.	\\SPITISERVER\electrician\COMMON\Electrician 1st sem video Charging method
4) Constant current method-Circuit diagram and description.		
5) Constant potential method-Circuit diagram and description.		
6) Rectifier method-Circuit diagram and description		
7)		

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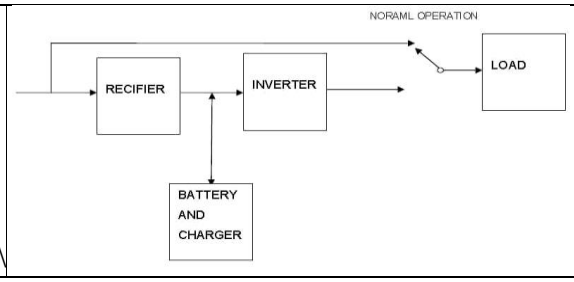
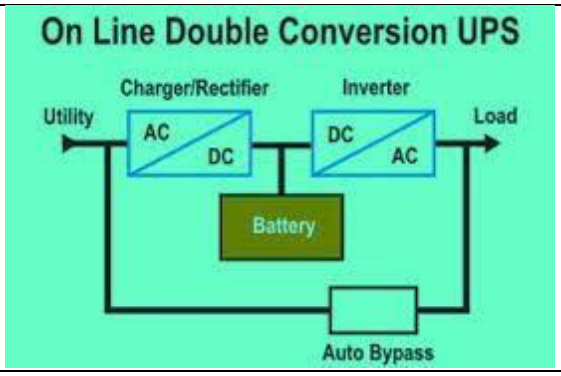
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR. CLASS NO:47

MAIN TOPIC / CHAPTER: INVERTER, BATTERY CHARGER, UPS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : UPS	_3rd_____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-11

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Classification of UPS		\\SPITISERVER\electrician\COMMON\Electrician 1st sem video ups
3) Block diagram of OFF line UPS		
4) Description of block diagram OFF line UPS		
5) Block diagram of ON line UPS		
6) Description of block diagram ON line UPS		
7)		
8)		
9)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:48

MAIN TOPIC / CHAPTER: INVERTER, BATTERY CHARGER, UPS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : general defectsand remedies	4th CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-11

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Lead Acid cell		\\SPITISERVER\electrician\COMMON\Electrician 1st sem video Lead Acid cell
2) general defects & remedies		
3) Nickel Alkali Cell-description		\
4) Charging. Power & capacity of cells		
5) Efficiency of cells		
6)		
7)		
8)		
9)		
10)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:49

MAIN TOPIC / CHAPTER: ALLIED TRADES (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:6
SUB TOPIC : ALLIED TRADES	___1st___CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-11-12

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction of fitting trade		
2) Safety precautions to be observed		
3) Description of files		\
4)		
5)		
6)		
7)		
8)		
9)		
10)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:50

MAIN TOPIC / CHAPTER: ALLIED TRADES (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:
SUB TOPIC : ALLIED TRADES	2nd_____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-11-12

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Description of hammers		
2) Description of chisels		
3) Hacksaw frames & blades-their specification & grades		\
4)		
5)		
6)		
7)		
8)		
9)		
10)		

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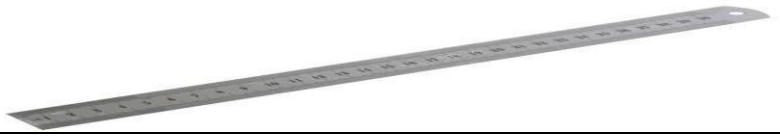
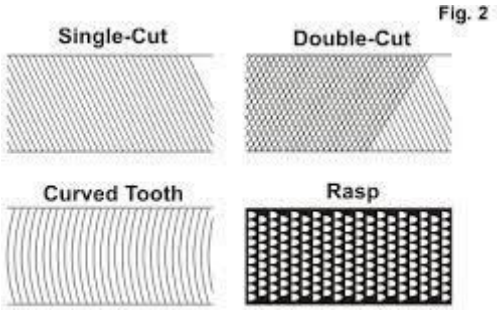
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:51

MAIN TOPIC / CHAPTER: ALLIED TRADES (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:6
SUB TOPIC : ALLIED TRADES	_3rd_____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-11-12

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Description of steel rule		
2) Care & maintenance of steel rule		
3) Description of try square		
4) Care & maintenance of try square		
5) Description of files.	Single cut, Double cut, Curved cut.	
6) Care & maintenance of files		
7)		
8)		
9)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:52

MAIN TOPIC / CHAPTER: ALLIED TRADES (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:6
SUB TOPIC : ALLIED TRADES	_4th_____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-11-12

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Marking tools description	Centre punch, Prick punch, Firm joint calipers, Spring joint calipers	
2) Use of Centre punch		
3) Use of Prink punch		\
4) Use of Firm joint calipers		
5) Use of Spring joint calipers		
6)		
7)		
8)		
9)		
10)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:53

MAIN TOPIC / CHAPTER: ALLIED TRADES (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:5th
SUB TOPIC : ALLIED TRADES	_____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-11-12

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) ALLIED TRADES		
2) Description of saws planes		
3) Description of chisels		\
4) Description of mallet		
5) Description of claw		
6)		
7)		
8)		
9)		
10)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:54

MAIN TOPIC / CHAPTER: ALLIED TRADES (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:6
SUB TOPIC : ALLIED TRADES	___6th___CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-11-12

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Description of hammer		
2) Marking tools-Description		
3) Marking tools-their care and maintenance		\
4) Dividing tools-Description		
5) Dividing tools-their care and maintenance		
6) Holding tools-Description		
7) Holding tools-their care and maintenance		
8)		
9)		
10)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:55

MAIN TOPIC / CHAPTER: MAGNETISM (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:7
SUB TOPIC : MAGNETISM	__1st____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-11-12

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Classification of magnets	Natural magnets, Artificial magnets	
3) Types of artificial magnets & description	Temporary magnets, Permanent magnets.	\
4) Methods of magnetising		
5)		
6)		
7)		
8)		
9)		
10)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:56

MAIN TOPIC / CHAPTER: MAGNETISM (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:7
SUB TOPIC : MAGNETISM	__2nd____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-12-13

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Magnetic materials		
2) Properties of magnetic materials		
3) care and maintenance of magnetic material		\
4)		
5)		
6)		
7)		
8)		
9)		
10)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:57

MAIN TOPIC / CHAPTER: MAGNETISM (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:7
SUB TOPIC : MAGNETISM	___3rd___CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-12-13

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Ferromagnetic materials- Description		
2) Paramagnetic materials - Description		
3) Paramagnetic materials - Description		\
4) Principle of electro-magnetism		
5) Maxwell’s corkscrew rule		
6)		
7)		
8)		
9)		
10)		

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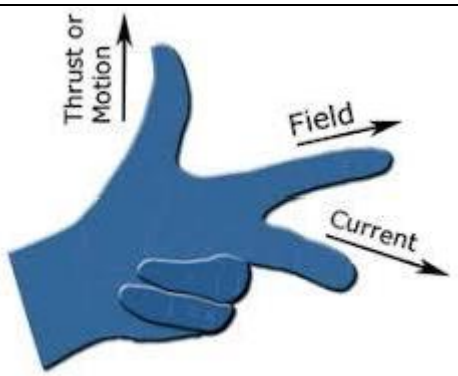
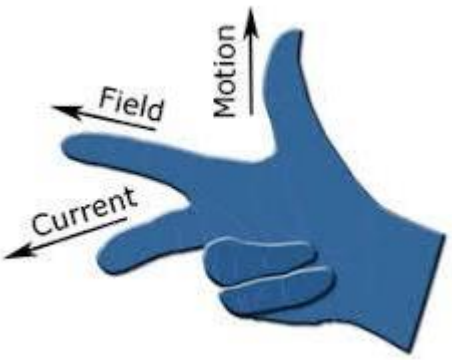
MASTER TEACHING PLAN

TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:58

MAIN TOPIC / CHAPTER: MAGNETISM (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:7
SUB TOPIC : MAGNETISM	__4th____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-12-14

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Fleming's left hand rules		
2) Fleming's right hand rules		
3) Magnetic field of current carrying conductors		\
4)		
5)		
6)		
7)		
8)		

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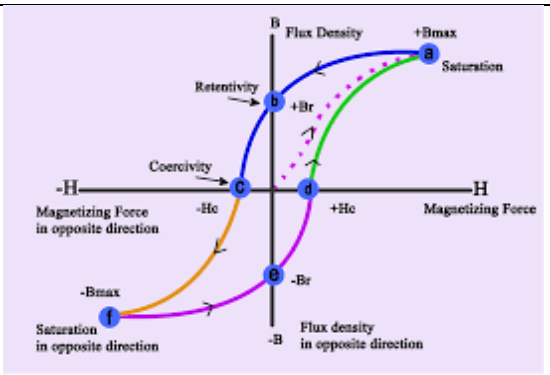
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:59

MAIN TOPIC / CHAPTER: MAGNETISM (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:7
SUB TOPIC: MAGNETISM:	_5th_____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-12-13

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Loop and solenoid		
2) MMF		
3) Flux density		\
4) Reluctance		
5) B.H. Curve		
6) Hysteresis		
7) Eddy current		
8)		
9)		
10)		

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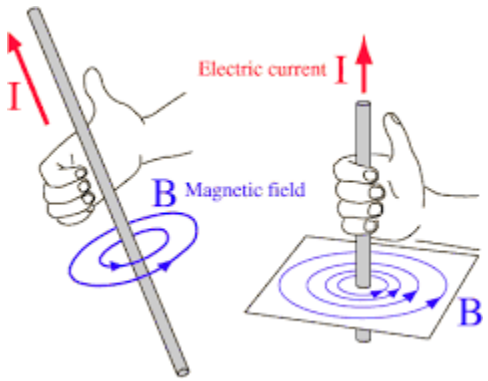
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:60

MAIN TOPIC / CHAPTER: MAGNETISM (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:7
SUB TOPIC : MAGNETISM	____6th _ CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-12- 13

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Principle of electromagnetic induction		
2) Faraday's Law		
3) Lenz's Law		\ 
4)		
5)		
6)		
7)		
8)		

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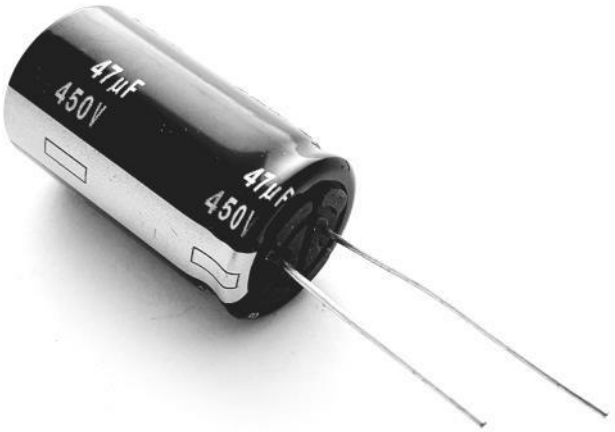
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:61

MAIN TOPIC / CHAPTER: MAGNETISM (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:7
SUB TOPIC : MAGNETISM	_7th_____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-13-14

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Electrostatics		
2) Electrostatics		
3) Functions of capacitor		\ 
4) Functions of capacitor		
5)		
6)		
7)		
8)		
9)		

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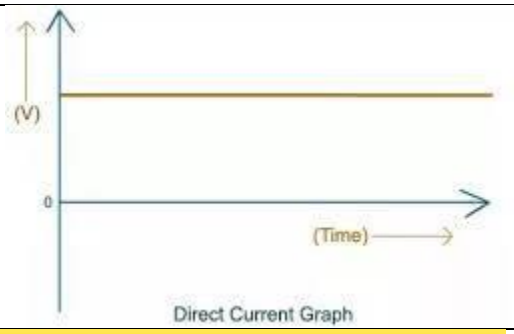
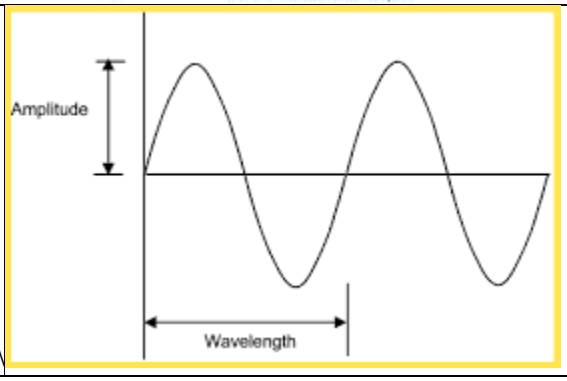
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:62

MAIN TOPIC / CHAPTER: ALTERNATING CURRENT (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:6
SUB TOPIC : ALTERNATING CURRENT	__1st___CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-13-14

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Definition of Direct current with diagram		 Direct Current Graph
3) Definition of Alternating current with diagram		
4) Comparison and Advantages of D.C and A.C		
5) Frequency		
6) Instantaneous value		
7)		
8)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:63

MAIN TOPIC / CHAPTER: Instantaneous value (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:6
SUB TOPIC : Instantaneous value	_____2nd CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-12-13

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) R.M.S. Value		
2) Average value		
3) Peak factor		\
4) Form factor		
5) Generation of sine wave		
6)		
7)		
8)		
9)		
10)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:64

MAIN TOPIC / CHAPTER: ALTERNATING CURRENT (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:6
SUB TOPIC : ALTERNATING CURRENT	__3rd____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-13-14

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Definition of phase		
2) Definition of phase difference		
3) Definition of inductive reactance		\
4) Definition of capacitive reactance		
5) Definition of impedance		
6) Definition of power factor		
7)		
8)		
9)		
10)		

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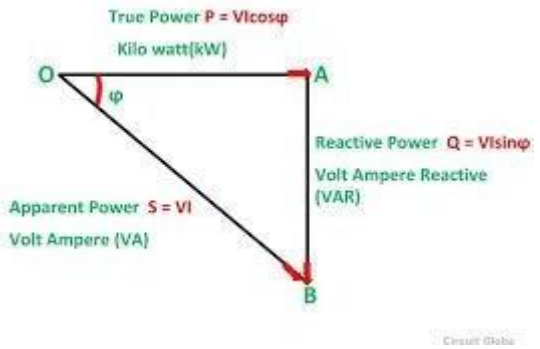
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:65

MAIN TOPIC / CHAPTER: ALTERNATING CURRENT (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:6
SUB TOPIC : ALTERNATING CURRENT	__4th____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-13-14

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Active power		
2) Active power		
3) Simple problems on A.C. Circuits, single Phase and three-phase system etc.		\
4)		
5)		
6)		
7)		
8)		
9)		
10)		

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TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:66

MAIN TOPIC / CHAPTER: ALTERNATING CURRENT (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:6
SUB TOPIC : ALTERNATING CURRENT	_5th_____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-13-14

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Power consumption in series circuit		
2) Power consumption in series circuit		
3) Calculation of power and power factor		\
4)		
5)		
6)		
7)		
8)		
9)		
10)		

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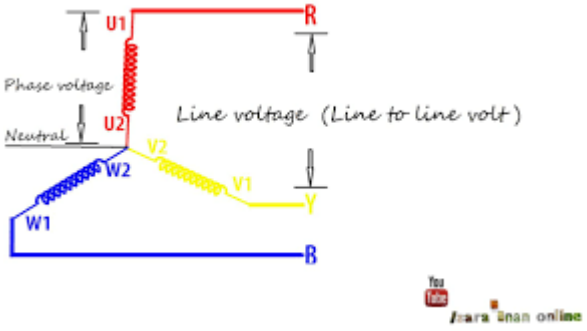
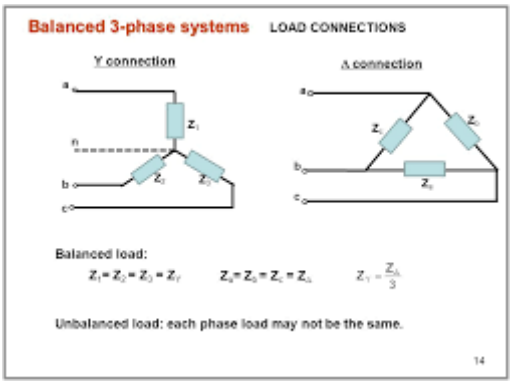
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:67

MAIN TOPIC / CHAPTER: ALTERNATING CURRENT (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:6
SUB TOPIC : ALTERNATING CURRENT	_____6th CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-13-14

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Concept three-phase		
2) Concept three-phase		
3) Line and phase voltage		\ 
4) Current and power in a 3 phase circuits with balanced and unbalanced load		
5)		
6)		
7)		
8)		

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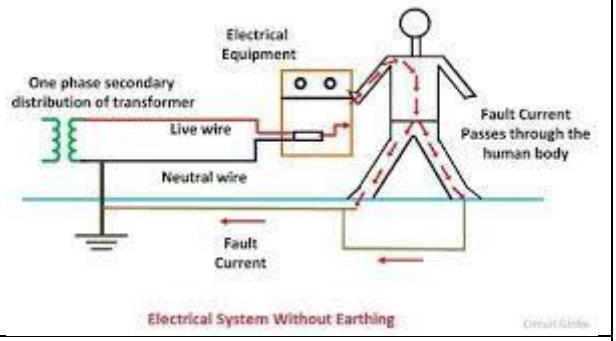
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:68

MAIN TOPIC / CHAPTER: EARTHING (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : EARTHING	__1st____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-13-14

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction		
2) Principle of earthing		
3) Explain the reasons for system and equipment earthin		\
4) State the terminal losses related to earthing		
5) Different methods of earthing	Pipe earthing , Plate earthing etc	
6)		
7)		
8)		
9)		
10)		

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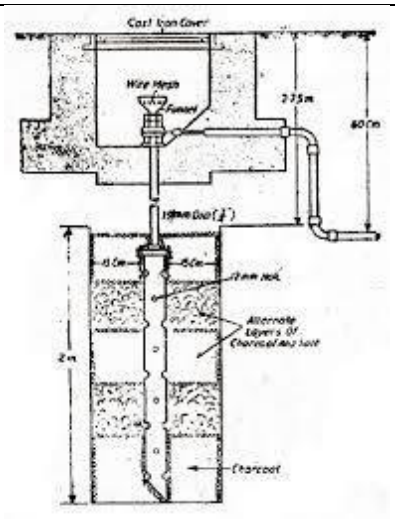
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:69

MAIN TOPIC / CHAPTER: EARTHING (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : PIPE EARTHING	___2nd___CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-13-14

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Pipe earthing - description with drawing		
2)		
3)		\
4)		
5)		
6)		
7)		

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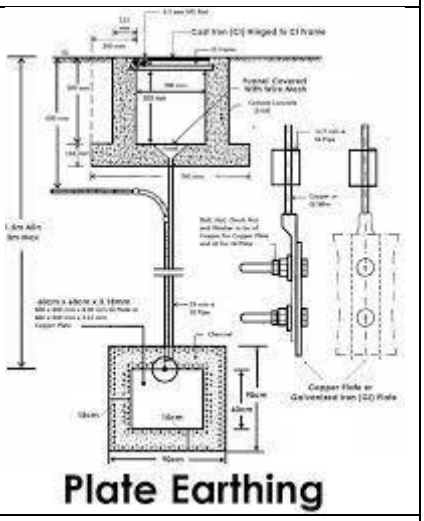
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:70

MAIN TOPIC / CHAPTER: EARTHING (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : PLATE EARTHING	___3rd___CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-14-15

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Plate earthing - description with drawing		
2) Methods of improving earth electrode resistnce		
3)		\
4)		
5)		
6)		
7)		
8)		
9)		

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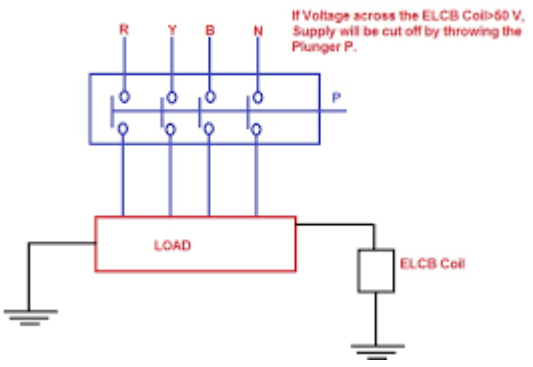
TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:71

MAIN TOPIC / CHAPTER: EARTHING (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : EARTH RESISTANCE TESTER	__4th____CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-14-15

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Earth resistance tester-Introduction		
2) Earth resistance tester-Construction		
3) Method of measuring earth ressistance		\
4) Earth Leakage Circuit Breaker(ELCB)		
5)		
6)		
7)		

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TRADE: **Electrician**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:72

MAIN TOPIC / CHAPTER:BASIC ELECTRONICS (NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC :OSCILLOSCOPE	1ST CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.1-2

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)INTRODUCTION		
2)CONSTRUCTION		Fig.1
3)PARTS OF OSCILLOSCOPE	1) ELECTRON GUN 2) DEFLECTING PLATES 3)FLUORESCENT SCREEN	
4) ELECTRON GUN		
5) ELECTRON GUN USES		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

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TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:73

MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC :OSCILLOSCOPE	2ND CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.1-2

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) DEFLECTING PLATES		
2) DEFLECTING PLATES USES		
3) FLUORESCENT SCREEN	1) ELECTRON GUN 2) DEFLECTING PLATES 3)FLUORESCENT SCREEN	Fig.2
4) FLUORESCENT SCREEN USES		
5) PRECUTION OF OSCILLOSCOPE		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:74

MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC :OSCILLOSCOPE	3RD CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.1-2

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)WORKING PRINCIPLE OF OSCILLOSCOPE		
2) SIGNAL GENERATOR		
3) FUNCTION OF SIGNAL GENERATOR	EXTERNAL MODULATION,INTERNAL MODULATION,AUDIO OUTPUT	
4) APPLICATION		
5) CONTANT VOLTAGE GENERATOR		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:75

MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC : TRANSISTORS	4TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.1-2

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)INTRODUCTION		
2) TYPES OF TRANSISTORS	PNP, NPN TRANSISTORS	
3) TRANSISTORS CONSTRUCTION		Fig.3
4) PNP TRANSISTORS		
5) NPN TRANSISTORS		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:76

MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC : TRANSISTORS	5TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.1-2

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) SPECIFICATION TRANSISTORS	PNP, NPN TRANSISTORS	
2) RATING OF TRANSISTORS		
3) EXPLANATION OF TRANSISTORS AMPLIFIERS		
4) TRANSISTORS ACTION		
5) POWER GAIN	OUTPUT CURRENT X INPUT VOLTAGE/INPUT CURRENT X INPUT VOLTAGE	
6)		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:77

MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC :AMPLIFIERS	6^{TH} CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.1-2

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) SPECIFICATION AMPLIFIERS	PNP, NPN TRANSISTORS	
2) RATING OF AMPLIFIERS		
3) EXPLANATION OF AMPLIFIERS		Fig.4
4) AMPLIFIERS ACTION		
5) AMPLIFIERS POWER GAIN	OUTPUT CURRENT X INPUT VOLTAGE/INPUT CURRENT X INPUT VOLTAGE	
6)		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:78

MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC : AMPLIFIERS	6^{TH} CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.1-2

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) SPECIFICATION AMPLIFIERS RATING	CLASS-A	
2) SPECIFICATION AMPLIFIERS RATING	CLASS-B	
3) SPECIFICATION AMPLIFIERS RATING	CLASS-C	
4) PARAMETER OF AMPLIFIER	HIGH, LOW, MEDIUM, PARAMETER	
5) SYSTEM OF AMPLIFING		Fig.5
6)POWWER AMPLIFIER		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:79

MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC : TRANSISTORS AND AMPLIFIERS	8TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.1-2

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) CLASS TEST OF TRANSISTOR AND AMPLIFIER		
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:80

MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC : OSICILATION	9TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.3-4

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)EXPLANATION OF OSICILATION		
2) WORKING PRINCIPLE		
3) TYPE OF STAGE		
4) EXPLANATION OF STAGE		
5) TYPES OF STAGE		
6)MULTI VIBRATOR		
7)		
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SIGNATURE OF TRADE INSTRUCTORS

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:81

MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC: TYPES OF ELECTRONICS COMPONENTS	10^{TH} CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.3-4

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) INTRODUCTION		
2) SPECIFICATION OF UJT		
3) TYPES OF UJT	FORWORD TYPES, REVERSE TYPES	
4) WORKING PRINCIPEL OF UJT		Fig.6
5) CONTROLING CIRCUIT OF UJT		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:82

MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC : TYPES OF ELECTRONICS COMPONENTS	11^{TH} CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.3-4

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) INTRODUCTION		
2) SPECIFICATION OF FET		
3) TYPES OF FET	BIAS TYPE ,NON BIAS TYPE	
4) WORKING PRINCIPEL OF FET		Fig.7
5) CONTROLING CIRCUIT OF FET		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:83

MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC : TYPES OF ELECTRONICS COMPONENTS	12TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.3-4

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) INTRODUCTION OF SCR		
2) SPECIFICATION OF SCR		
3) WORKING PRINCIOLE OF SCR		Fig.8
4) INTRODUCTION OF DIAC		
5) SPECIFICATION OF \DIAC		
6) WORKING PRINCIOLE OF DIAC		Fig.9
7)		
8)		
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:84

MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC : TYPES OF ELECTRONICS COMPONENT	13TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.3-4

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) INTRODUCTION OF TRIAC		
2) SPECIFICATION OF TRIAC		Fig.10
3) INTRODUCTION OF POWER MOSFET		
4) SPECIFICATION OF POWER MOSFET		Fig.11
5) INTRODUCTION OF G.T.O		
6) SPECIFICATION OF G.T.O		Fig.12
7) INTRODUCTION OF I.G.B.T		
8) SPECIFICATION OF I.G.B.T		Fig.13
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTOR

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:85

MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC : DIGITAL ELECTRONICS	14TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.3-4

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)INTRODUCTION		
2) CLASIFICATION OF DIGITAL ELECTRONIC	BINARY NUMBER,LOGIC GATE,	
3) BINARY SYSTEM		
4) CALCULATION OF BINARY SYSTEM		
5) PROBLEMS OF BINARY SYSTEM		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:86

MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC : DIGITAL ELECTRONICS	15^{TH} CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.3-4

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) CLASS TEST OF TRANSISTOR AND AMPLIFIER		
2) INTRODUCTION		
3) TYPES OF LOGIC GATE		Fig.14
4) LOGIC GATE		
5) CALCULATION OF LOGIC GATE		
6)PROBLEM OF LOGIC GATE		
7)COMBINATIONAL CIRCUITS		
8)		
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:87

MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC : DIGITAL ELECTRONICS	16^{TH} CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO:3-4

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)) CLASS TEST OF TRANSISTOR AND DIGITAL ELECTRONICS		
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

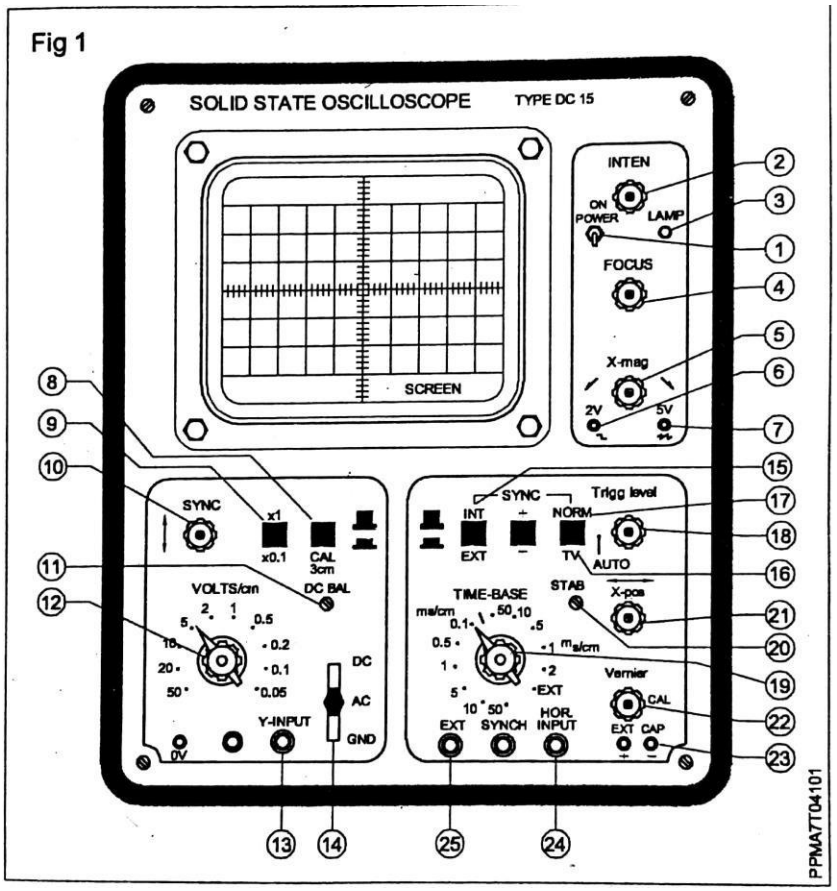


Fig 1
SOLID STATE OSCILLOSCOPE
TYPE DC 15
SCREEN
INTEN
ON POWER
LAMP
FOCUS
X-mag
2V
5V
SYNC
x1
x0.1
CAL 3cm
DC BAL
VOLTS/cm
Y-INPUT
DC
AC
GND
0V
SYNC
INT
EXT
NORM
TV
Trigg level
AUTO
TIME-BASE
STAB
X-pos
Vernier
CAL
EXT
SYNCH
HOR. INPUT
EXT CAP
PPMATT04101

Fig.1

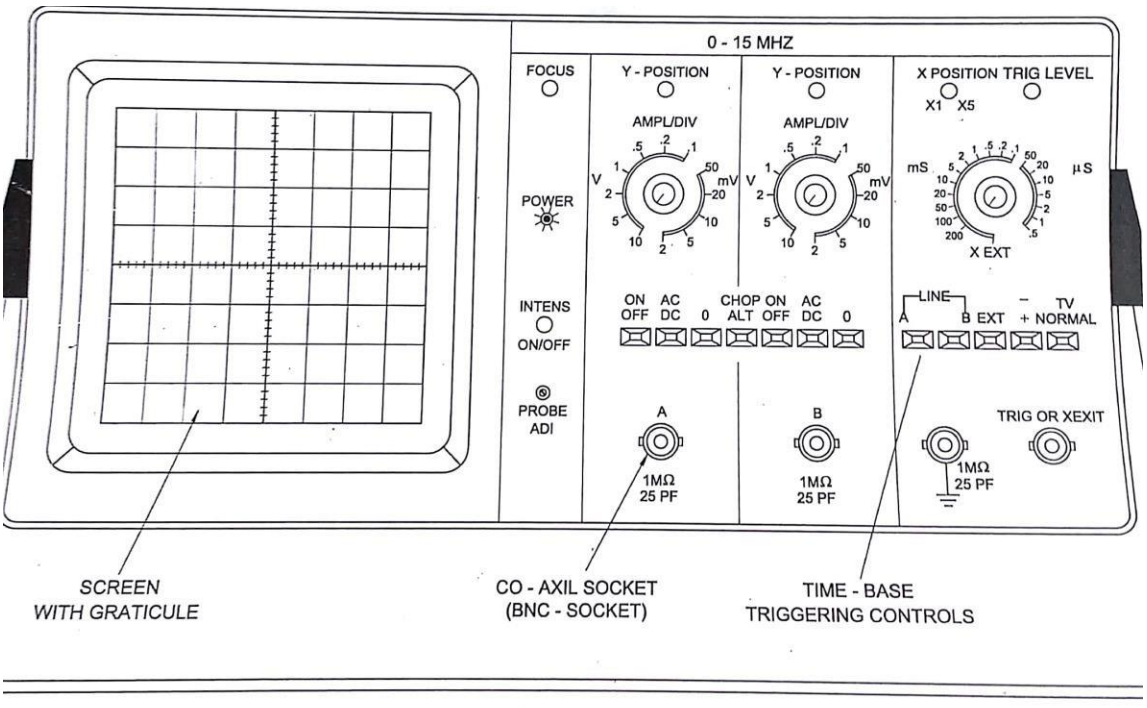

0 - 15 MHZ
FOCUS
POWER
INTENS
ON/OFF
PROBE ADJ
Y - POSITION
AMPL/DIV
Y - POSITION
AMPL/DIV
X POSITION TRIG LEVEL
X1 X5
X EXT
ON OFF AC DC 0
CHOP ON ALT OFF AC DC 0
LINE
A B EXT TV + NORMAL
A
B
1MΩ 25 PF
1MΩ 25 PF
1MΩ 25 PF
TRIG OR XEXIT
SCREEN WITH GRATICULE
CO - AXIL SOCKET (BNC - SOCKET)
TIME - BASE TRIGGERING CONTROLS

Fig.2

Fig 2

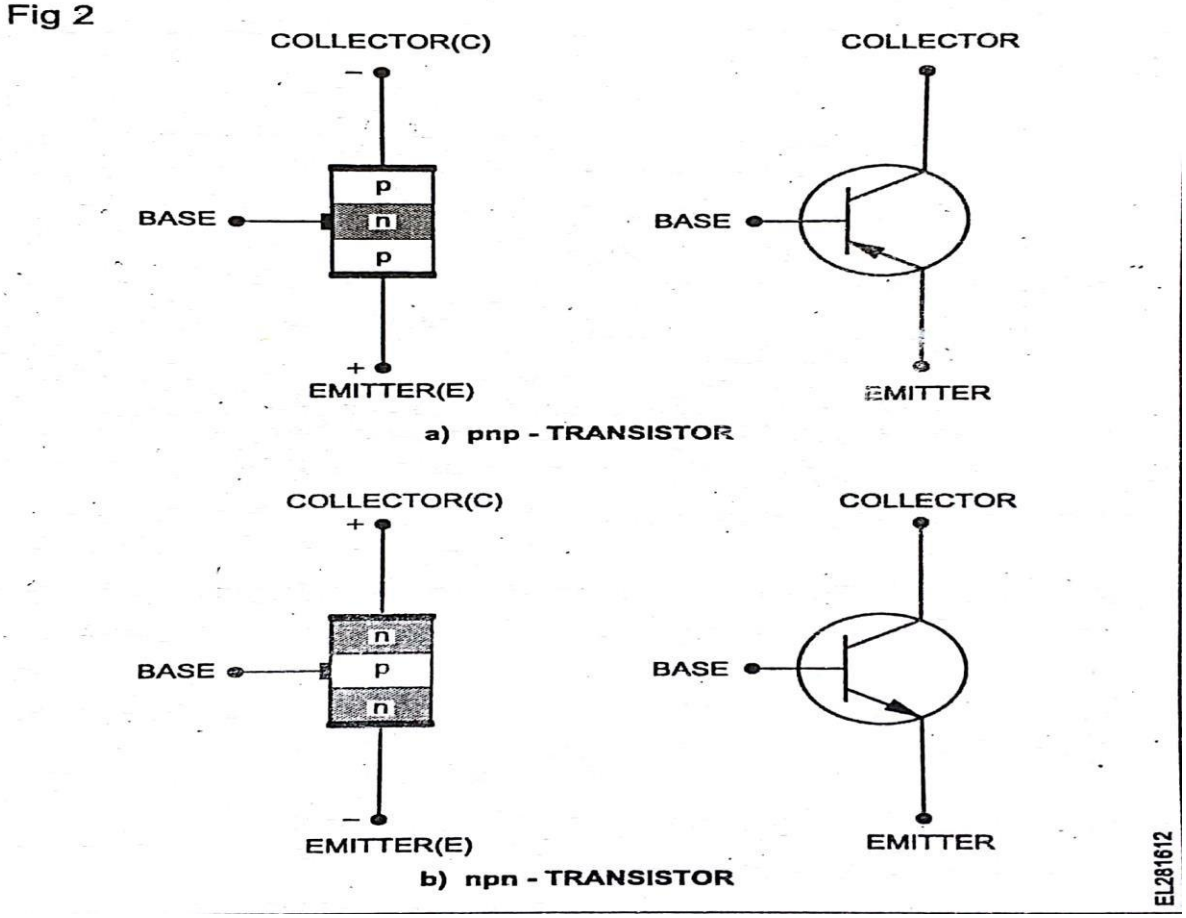
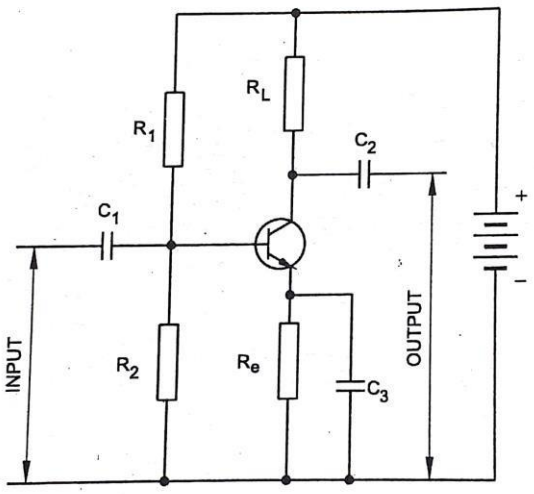


Fig.3

Fig 1



RESISTORS	CAPACITORS
R_1=22kΩ	C_1=10 μF
R_2=5kΩ	C_2=10 μF
R_L=3.3kΩ	C_3=200 μF
R_e=0.5kΩ	

Fig.4

Fig 4

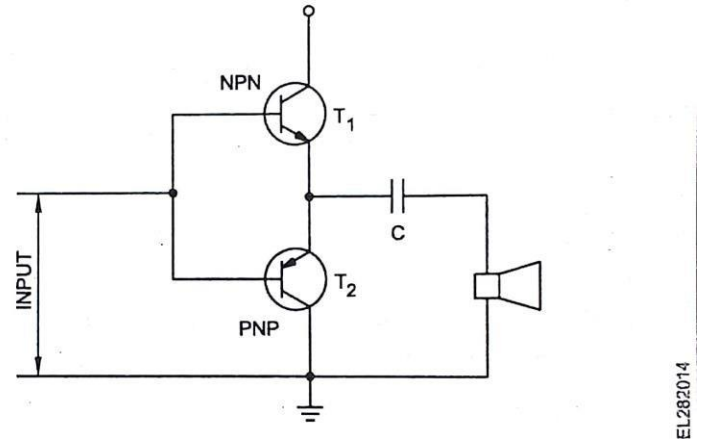


Fig.5

Fig 2

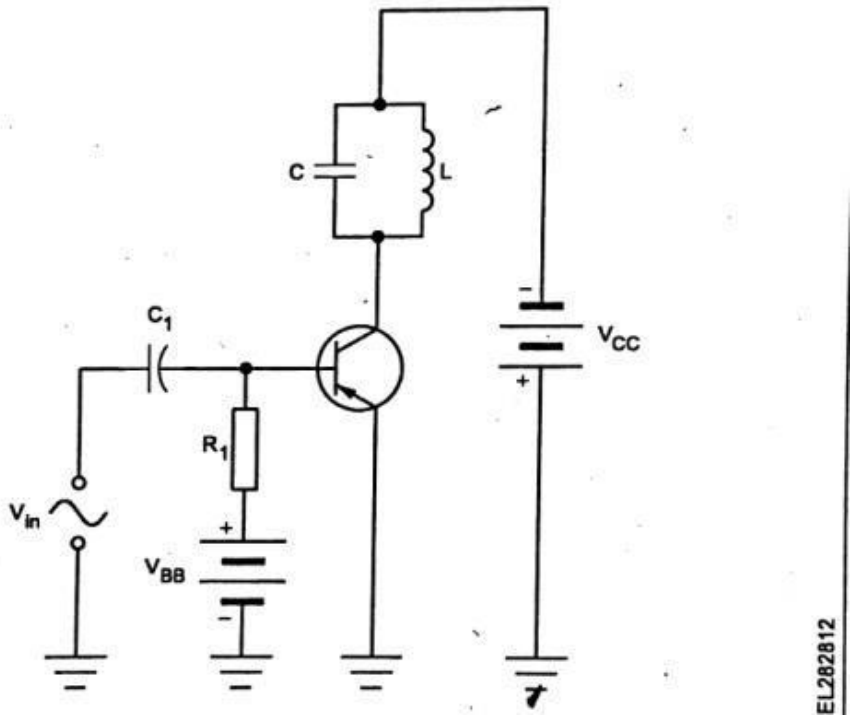
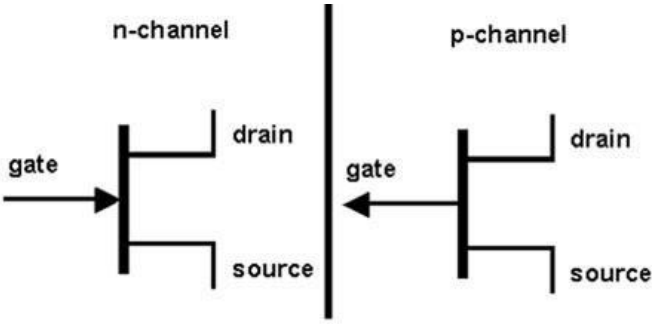


Fig.6



FET

Field-Effect Transistor

Fig.7

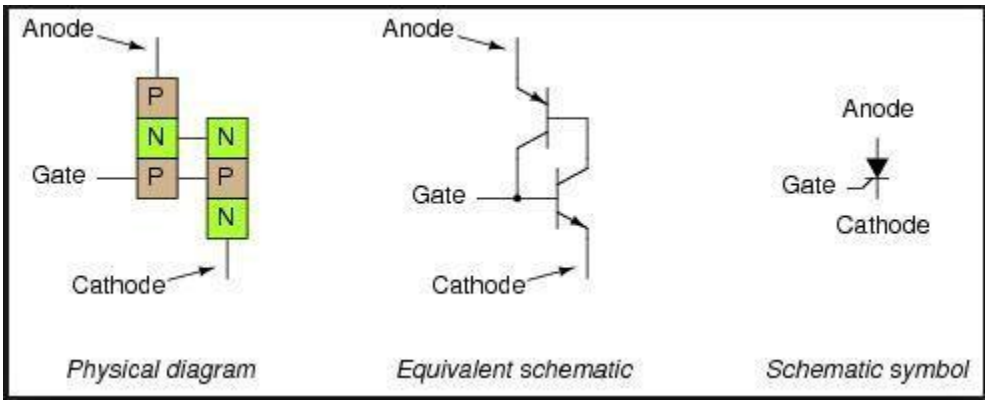


Fig.8

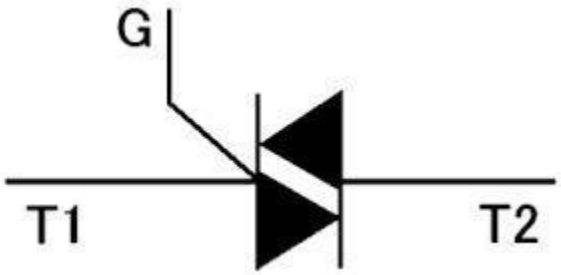


Fig.9

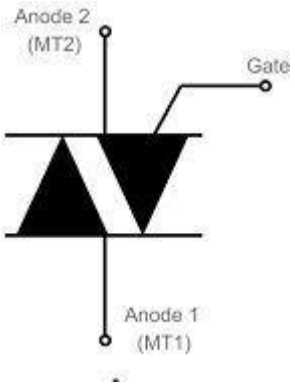


Fig.10

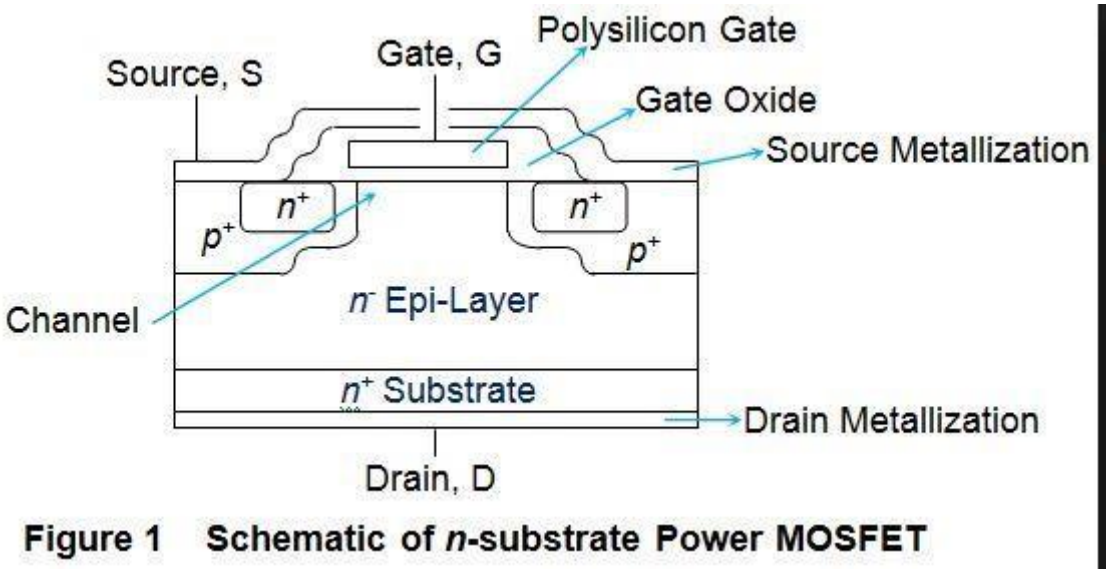
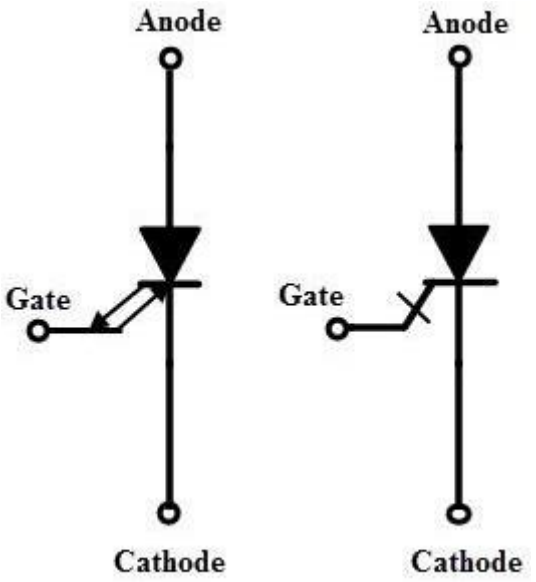


Fig.11



Gate Turn-Off Thyristor Symbols

Fig.12

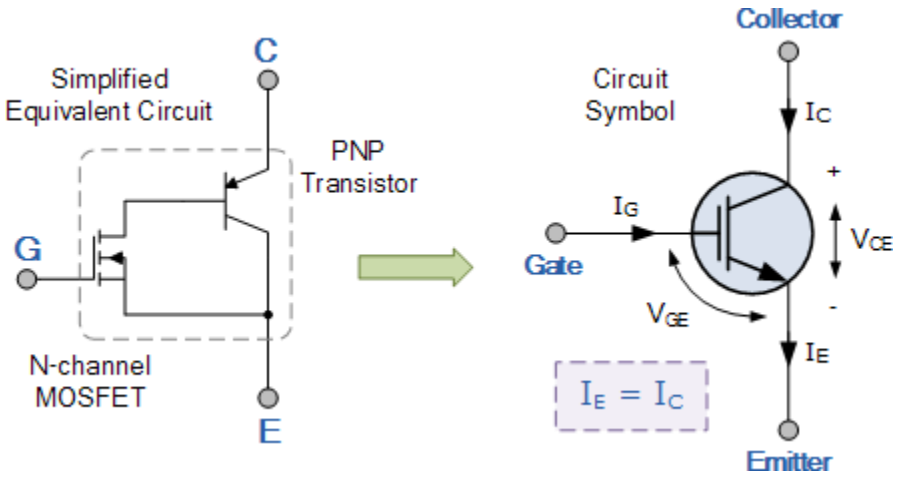


Fig.13

Logic Gates

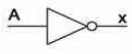
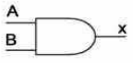
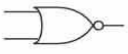
Name	NOT	AND	NAND	OR	NOR	XOR	XNOR
Alg. Expr.	$\overline{A}$	AB	$\overline{AB}$	$A+B$	$\overline{A+B}$	$A \oplus B$	$\overline{A \oplus B}$
Symbol							
Truth Table	A X 0 1 1 0	B A X 0 0 0 0 1 0 1 0 0 1 1 1	B A X 0 0 1 0 1 1 1 0 1 1 1 0	B A X 0 0 0 0 1 1 1 0 1 1 1 1	B A X 0 0 1 0 1 0 1 0 0 1 1 0	B A X 0 0 0 0 1 1 1 0 1 1 1 0	B A X 0 0 1 0 1 0 1 0 0 1 1 1

Fig.14

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE: **Electrician**	TYPE OF CLASS: **THEORY**	1ST YEAR CLASS NO:88

MAIN TOPIC / CHAPTER: **Electric wirings** (NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER: 11
SUB TOPIC : **Types of wirings**	_1_____ST CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:5-6

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Electric wirings---- I.E. rules.		
2) Domestic and industrial. Wiring Types...	Use in Different Purposes in Home & Industrial	
3) Introduction of Domestic Wiring and Methods		
4) A. Temporary wiring		
5) B. Permanent wiring		
6) Definition of temporary wiring		
7) i. Flexible wire wiring	Use for marriages fairs etc.	
8) ii. Cleat wiring	Use for home.	Fig.15
9) Definition of permanenent wiring		Fig.16
10) i. Casing-capping wiring	Use for residential buildings only.	
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE: **Electrician**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:89

MAIN TOPIC / CHAPTER: **Electric wirings**(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER: \11
SUB TOPIC : Permanent wiring	_____2ND CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:5-6

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) C.T.S/ T.R.S wiring	Residential , hospital, office.	
2) Lead sheathed wiring	Residential , hospital, office. It is very expensive.	
3) Conduit pipe wiring	Hospital, office etc.	
4) Duct wiring	Hospital, office , cinema hall etc.	
5)PROCESS OF INSTALLATION		
6)		
7)		
8)		
9)		
10)		
11)		

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SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE: **Electrician**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO: 90

MAIN TOPIC / CHAPTER: **Electric wirings**(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11
SUB TOPIC : Adv.& Dis. Adv of Wiring	3RD CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:5-6

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Temporary wiring. A. Flexible-wire wiring Adv. & Dis. Adv And Precaution	Use for marriages fairs etc.	
2) B. Cleat wiring Adv. & Dis. Adv And Precaution		
C. Permanent Casing capping wiring Adv. & Dis. Adv And Precaution		
3) Batten wiring Adv. & Dis. Adv And Precaution.		
4) Lead sheathed wiring Adv. & Dis. Adv And Precaution		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO: 91

MAIN TOPIC / CHAPTER: ELECTRICAL WIRING(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11
SUB TOPIC : Adv.& Dis. Adv of Wiring and IE Rules	___4____TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:5-6

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Conduit pipe wiring Adv. & Dis. Adv And Precaution.		
2) Duct wiring Adv. & Dis. Adv And Precaution.		
3) I.E OR I.S. RULES.		
4) General introduction of IE rules with 17 points.		
5) Introduction of tests for wiring as per IE rules before supplying mains.		
7)		
8)		
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

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MASTER TEACHING PLAN

TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:92

MAIN TOPIC / CHAPTER: ELECTRICAL WIRING(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11
SUB TOPIC : MEGGER	___5____TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:5-6

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction of Megger.		
2) Construction of Megger.		
3)Working principle of Megger.		
3) Precaution of Megger.		
4) Use of Megger.	Testing the leakage of an Installation.	
5) Selection of the wiring system	Distance from fire points Type of buildings Cost of wiring etc	
7)		
8)		
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:93

MAIN TOPIC / CHAPTER:ELECTRICAL WIRING(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11
SUB TOPIC : Material required for wiring	____6___TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:5-6

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Material required for wiring		Fig.18
2) Electrical accessories	Switch, holder	Fig.19
3) Wires	VIR and PVC	Fig.20
4) Wooden screw	12 mm-16mm	
5) PVC pipe	Passing the wires	
6) Wooden board and plug	75X25mm	
7) Distribution board	Used for Controlling the wiring system	
8) Main switch board	Used to ON and OFF An Electric installation	
9) Meter Board	It is Fitted by the Electric distribution department	
10)		

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SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:94

MAIN TOPIC / CHAPTER: :ELECTRICAL WIRING(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11
SUB TOPIC : Preparation FOR Wiring	____7___TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:5-6

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) To prepare wiring diagram	Wiring lay-out	
2) To Estimate	Costing of materials or BOM	
3) Marking	Walls marking Horizontal & Vertical	
4) To fix the Wooden Gutties		
5) METHODS OF WIRING		
6) A. Looping Method Adv. & Dis. Adv		Fig.20
7) B. Connector Method Adv. & Dis. Adv		
8) C. Tree Method Adv. & Dis. Adv		
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE: **Electrician**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO: 95

MAIN TOPIC / CHAPTER: **Electric wirings**(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11
SUB TOPIC : Testing of Wiring	__8_____TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:5-6

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1. Insulation Resistance Test Between the Conductor & Earth	By Using of Megger	
2. Test the wiring and result the Leakage current		
3. Insulation Resistance Test Between the Conductor	By Using of Megger	
4. Continuity Test	By Using of Megger	
5. Polarity test of the Switch	By Using of Megger	
6) GENERAL FAULT OF ELECTRICAL INSTALLATION		
7) A. Short Ckt		
8) B. Leakage CKT		
9) C. Open Ckt		
10) D. Fuse Wire Burninh		
11) E. Earthing		

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MASTER TEACHING PLAN

TRADE: **Electrician**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:96
MAIN TOPIC / CHAPTER: **Electric wirings**(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11	
SUB TOPIC :LIGHTING CIRCUITS	_____9_TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:5-6	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) LIGHITING CIRCUIT		
2) Draw Schematic Diagrams for typical wiring Circuit.	Nimi- pg-87	
3) A. Bedroom Lighiting		
4) B. Corridor lighting Circuit		
5) C. Series /parallel ckt		
6) D. Two way center off swich to control one lamp bright and two lamps dim.		
7) E. Master switch control		
8) ESTIMATION OF LOAD		
9) SELECTION OF CABLE SIZE		
10) TYPE OF SUPPLY		
11) LOAD CALCULATION METHOD		
12)		

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE: **Electrician**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:97

MAIN TOPIC / CHAPTER: **Electric wirings**(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11
SUB TOPIC :APPLICATION OF WIRINGS	___10____TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:5-6

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Locatian of lamp points		
2) Drawing room, kitchen, bedroom, dining room, hall, gallery, store room etc.		
3) SHORT QUESTION AND ANSWER DISCUSSION AND WRITING		
4) Electrical wiring		
5) Type of wiring		
6) Testing		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:98

MAIN TOPIC / CHAPTER: **Electric wirings**(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11
SUB TOPIC : WIRING SYSTEM	11TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO:3-4

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)) CLASS TEST OF TRANSISTOR AND ELECTRICAL WIRING		
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

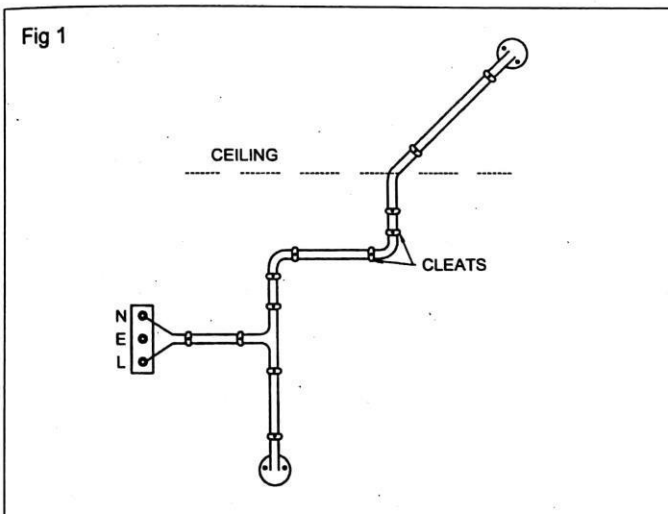

Fig.`15

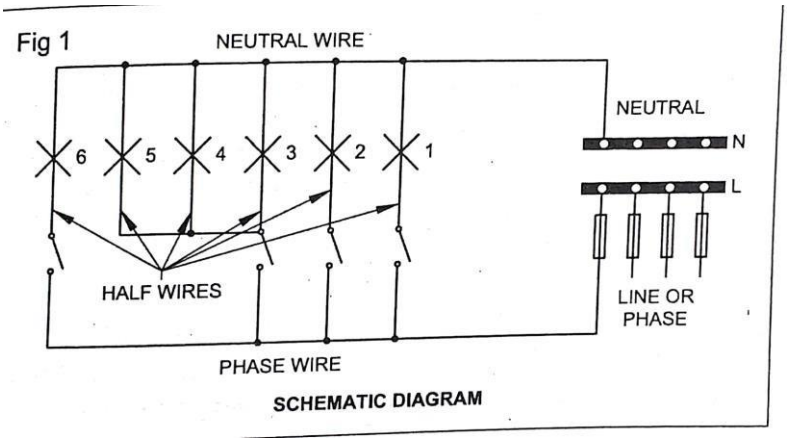

Fig.16

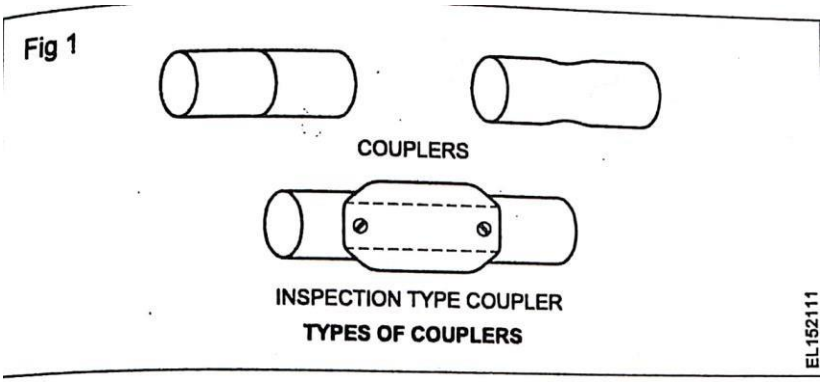

Fig.17

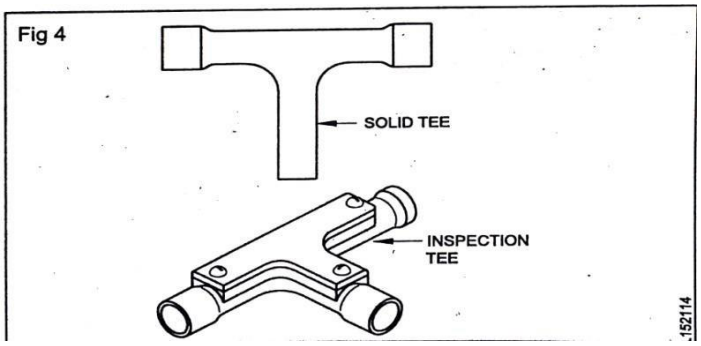

Fig.18

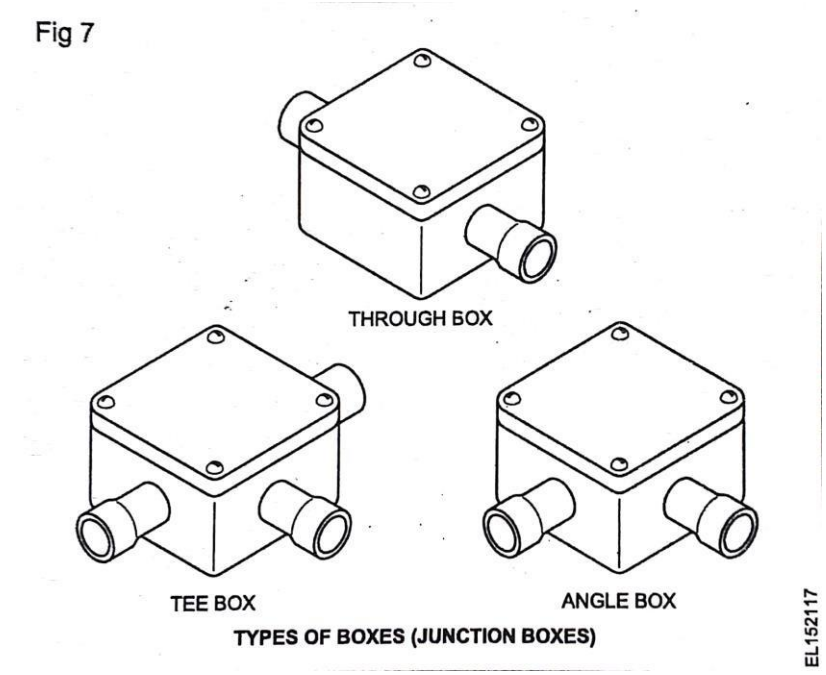
Fig 7
THROUGH BOX
TEE BOX
ANGLE BOX
TYPES OF BOXES (JUNCTION BOXES)
EL152117

Fig.19

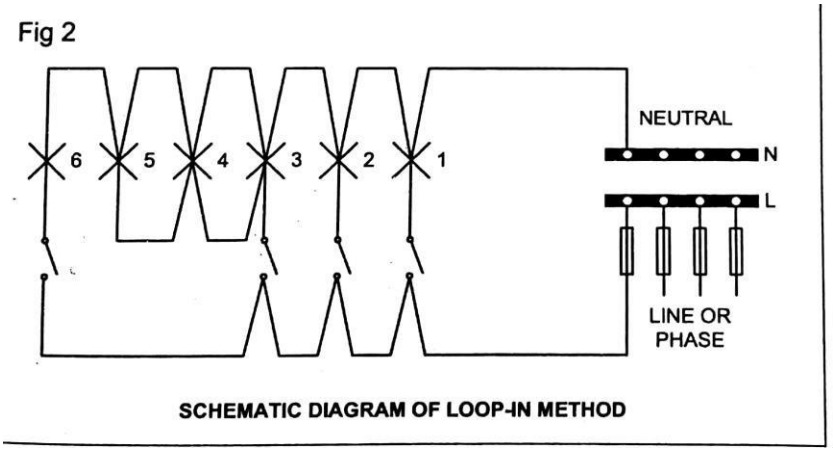
Fig 2
6
5
4
3
2
1
NEUTRAL
N
L
LINE OR
PHASE
SCHEMATIC DIAGRAM OF LOOP-IN METHOD

Fig.20

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TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:99

MAIN TOPIC / CHAPTER:SAFTY DEVICE (NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER: 5
SUB TOPIC :FUSE	1ST CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO:7

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) INTRODUCTION		
2) TYPES OF FUSE	OPEN TYPE,SEMI ENCLOSE,TOTALLY ENCLOSE	
3) OPEN TYPE	OVER HEAD LINES FUSE	
4) SEMI ENCLOSE	FUSE CUT OUT, KIT KAT FUSE	
5) SEMI ENCLOSE TYPE	CARTIDGE, H.R.C	
6)H.R.C FUSE SPECFIACTION		
7)		
8)		
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

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TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:100

MAIN TOPIC / CHAPTER: SAFTY DEVICE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:5
SUB TOPIC : RELAYS	2ND CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO:7

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)) INTRODUCTION		
2) TYPES OF REALAY	OPEN TYPE, CLOSE TYPE, CURRENT RELAY, VOLTAGE RELAY,	
3) CURRENT RELAY		
4) VOLTAGE RELAY		
5) WORKING PRINCIPLE		
6)REPARING		
7)		
8)		
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

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TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:101

MAIN TOPIC / CHAPTER: SAFTY DEVICE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:5
SUB TOPIC : M.C.B	3RD CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO:7

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)) INTRODUCTION		
2) TYPES OF M.C.B	AS PER CURRENT RATINGS	Fig.21
3) WORKING PRINCIPLE		Fig.22
4) PARTS OF M.C.B		Fig.23
5) REPARING		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:102

MAIN TOPIC / CHAPTER: SAFTY DEVICE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:5
SUB TOPIC : E.L.C.B	4TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO:7

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)) INTRODUCTION		
2) TYPES OF E.L.C.B	AS PER CURRENT RATINGS	
3) WORKING PRINCIPLE		
4) PARTS OF E.L.C.B		
5) REPARING		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

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TRADE: **ELECTRICIAN**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:103

MAIN TOPIC / CHAPTER: SAFTY DEVICE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:5
SUB TOPIC : CLASS TEST OF SAFTY DEVICE	5TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO:7

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) CLASS TEST OF SAFTY DEVICE		
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

SIGNATURE OF TRADE INSTRUCTORS

Fig 5

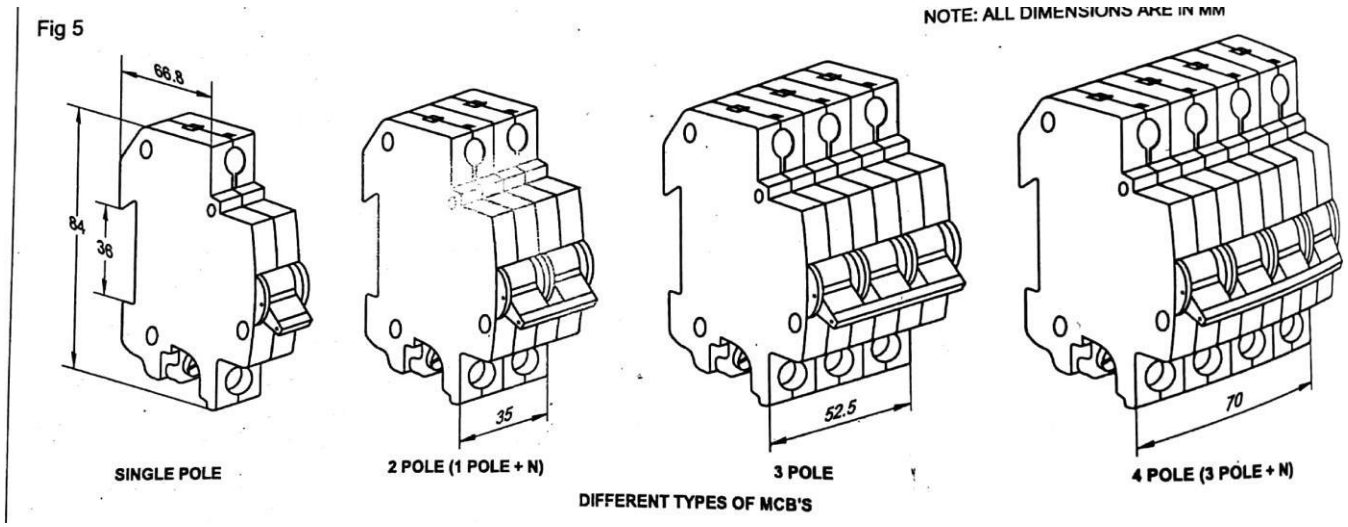

Fig.21

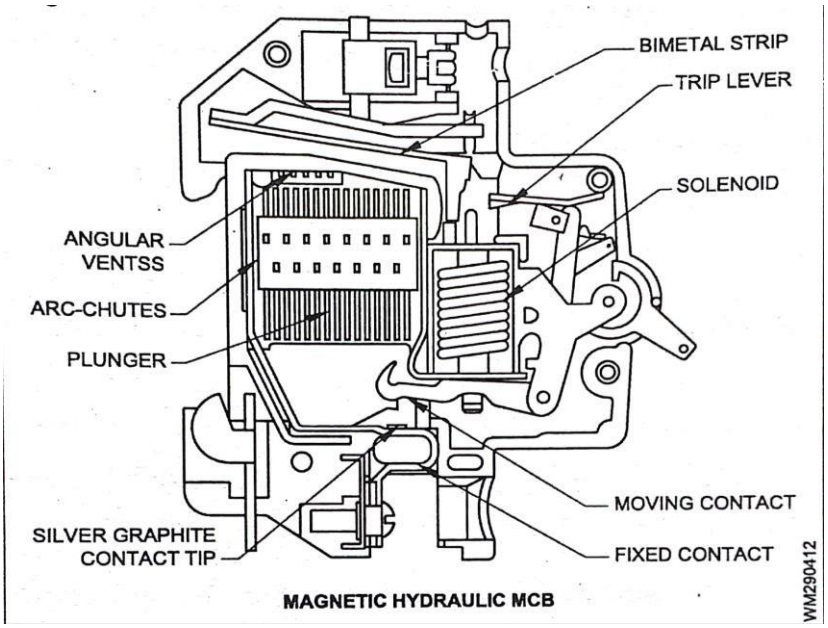

Fig.22

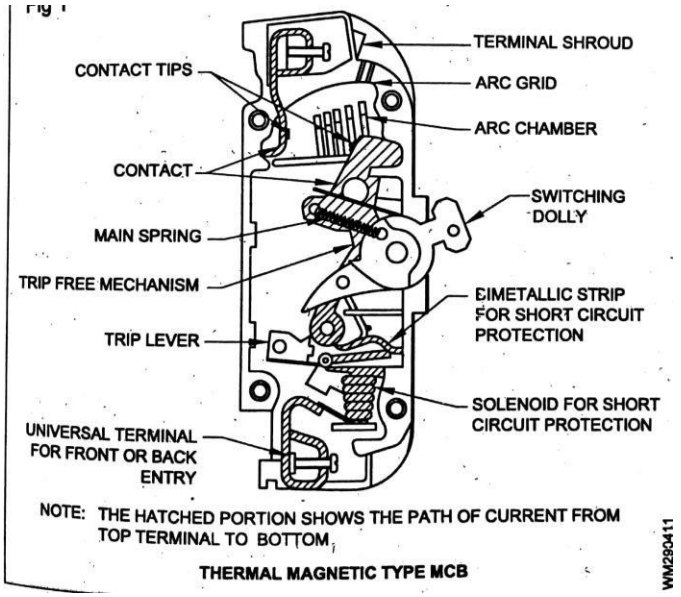

Fig.23

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
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TRADE: **Electrician**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:104

MAIN TOPIC / CHAPTER: DC MACHINE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : DC GENERATOR	_____1ST CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:8-9

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Introduction of DC GENERATOR		
2) Principle of Generator	Faradays law	
3) Type of Generator		
4) Water turbine type	On the basis of prime-mover	
5) Steam turbine type		
6) Diesel engine type		
7) Type of EMF		
8) Dynamically induced emf and equation	Nimi-146-147	
9)		
10)		
11)		
12)		

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TRADE: **Electrician**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:105

MAIN TOPIC / CHAPTER: DC MACHINE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : DC GENERATOR	_____2ND CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:8-9

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Part of a DC GENERATOR	For industrial use	Fig.24
2) A) Frame or yoke		
3) B) pole and pole shoe		
4) C) Field coil or winding		Fig.25
5) D) armature core		
6) E) Armature winding		
7) F) Commutator		
8) G) Brushes		
9) H) Bearing		
10) I) Air filted for fan		
11) J) Shaft		
12)		

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TRADE: : **Electrician**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:106

MAIN TOPIC / CHAPTER: DC MACHINE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : DC GENERATOR	_____3RD CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:8-9

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Type of DC GENERATOR		
2) Separately excited		
3) Self excited		
4) Permanent Magnet		
5) Shunt		
6) Series		
7) Compound		
8) Short shunt compound		
9) Long shunt compound		
10) Cumulative Compound		
11) Differential Compound		
12) Terminal Marking		

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TRADE: : **Electrician**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:107

MAIN TOPIC / CHAPTER: DC MACHINE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : DC GENERATOR	_____4_TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:8-9

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Commutator and its function		
2) Split ring		
3) Wave shapes of the induced voltage		
4) Simple generator with split ring		
5) Slip ring		
6) Possible reason if a shunt generator falls to generated the voltage		
7) Possible reason if a series generator falls to generated the voltage		
8) Characteristic of compound generator		
9) Characteristic of series and shunt generator		
10)		
11)		
12)		

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TRADE: : **Electrician**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:108

MAIN TOPIC / CHAPTER: DC MACHINE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : DC GENERATOR	____5___TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:8-9

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Armature reaction		
2) Commutation		
3) Method of obtaining commutation without causing sparking		
4) 1) Interpole method		
5) 2) short pitch winding method		
6) 3) using high resistance brushes		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE: **Electrician**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:109

MAIN TOPIC / CHAPTER: DC MACHINE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : : DC GENERATOR	___6____TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:10-11

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Losses in dc generator		
2) Copper loss		
3) Iron loss		
4) Mechanical loss		
5) Stray loss		
6) Constant loss		
7) Variable loss		
8) Total loss		
9) Efficiency of dc generator		
10) Overall efficiency		
11) Electrical efficency		
12) Mechanical efficiency		

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TRADE: **Electrician**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:109
MAIN TOPIC / CHAPTER: DC MACHINE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9	
SUB TOPIC : : DC GENERATOR	____7___TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:10-11	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Voltage regulation in generator		
2) EMF equation of dc generator		
3) Method of measuring the speed of a rotating shaft		
4) Used of a dc generator		
5) Series	Arc welding, arc lighting	
6) shunt	Lighting, battery charging	
7) compound	Reduce the voltage drop of a long feeder line	
8)		
9)		
10)		
11)		
12)		

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TRADE: **Electrician**	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:110
MAIN TOPIC / CHAPTER: DC MACHINE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9	
SUB TOPIC : : : DC GENERATOR	___8____TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:10-11	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) generator troubles		
2) A) generator fails to generate the voltage		
3) B) sparking at the commutator		
4) C)heating of the generator		
5)problem solved		
5) Short question		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:111
MAIN TOPIC / CHAPTER:DC MACHINE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9	
SUB TOPIC :CLASS TEST	___9____TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:10-11	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)CLASS TEST OF DC MACHINE		
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

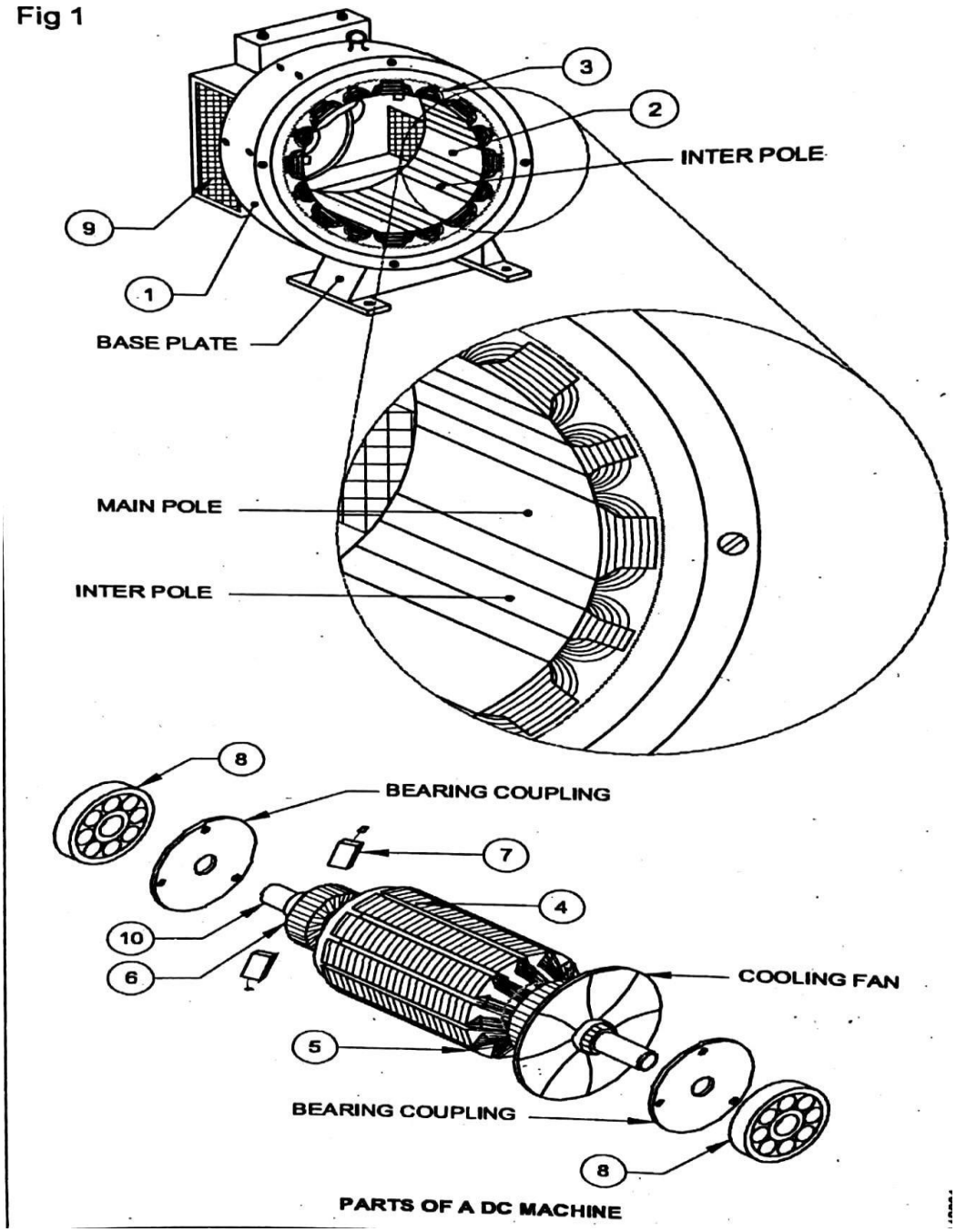
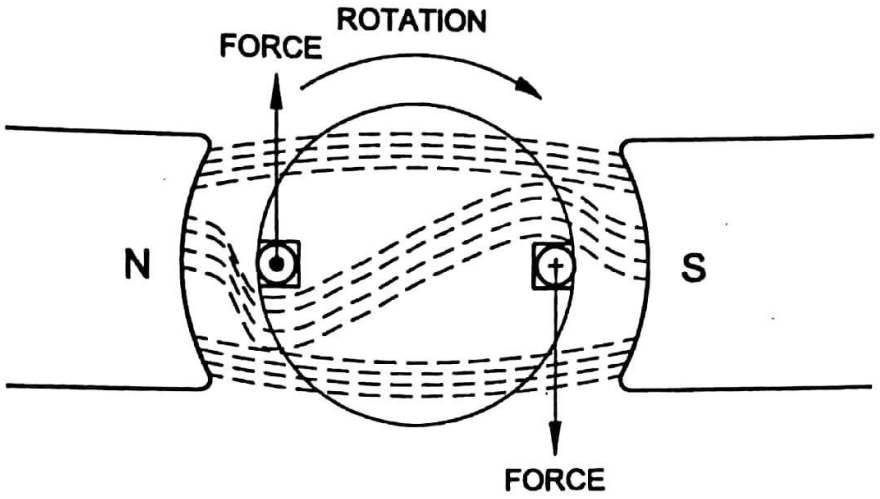


Fig 1
3
2
INTER POLE
9
1
BASE PLATE
MAIN POLE
INTER POLE
8
BEARING COUPLING
7
4
10
6
COOLING FAN
5
BEARING COUPLING
8
PARTS OF A DC MACHINE

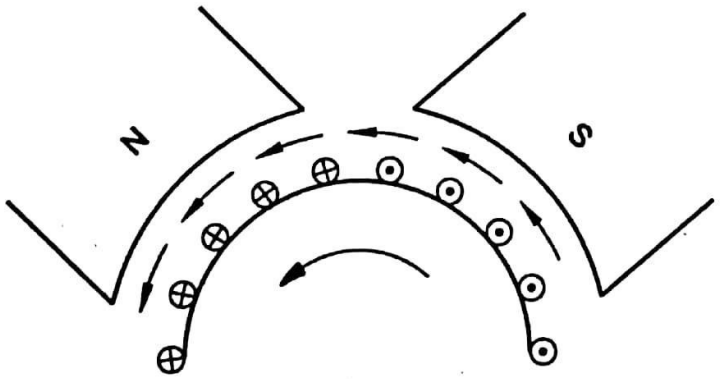
Fig.24

Fig 2



REACTION OVER A CURRENT CARRYING LOOP BY THE MAGNETIC FIELD

Fig 3



REACTION OVER THE ARMATURE CURRENT CARRYING CONDUCTORS BY THE MAGNETIC FIELD

Fig.25

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY /	1ST YEAR CLASS NO:112

MAIN TOPIC / CHAPTER:DC MOTORS (NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:10
SUB TOPIC : DC MACHINE	____1ST___CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTUES	NCVT WEEK NO, 12-13

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)INTRODUCTION	Industry ,trum , train	
2)WORKING PRINCIPLE		
3)BACK EMF		
4)TORQUE		
5)TYPES OF TORQUE	ARMATURE TORQUE, SHAFT TORQUE,LOST TORQUE	
6)RELETION BETWWEN BACK EMF AND TORQUE		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:113
MAIN TOPIC / CHAPTER: DC MOTORS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:10	
SUB TOPIC : DC MACHINE	_____2 nd CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTUES	NCVT WEEK NO, 12-13	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)FLEMING LEFT HAND RULES		Fig.26
2)CLASSICIFICATION OF DC MOTOR	SERIES MOTOR, SHUNT MOTOR, COMPOUND MOTOR	
3)SERIES MOTOR	CRANES, TRAM, RAILWAYS	
4)SHUNT MOTOR	LATHE, FOUR MILLIS, DRILLING MACHINE	
5)COMPOUND MOTOR		
6)CLASSICIFICATION OF COMPOUND MOTOR	CUMMULATIVE TYPE MOTOR, DIFFERTIAL TYPE COMPOUND MOTOR	
7) CUMMULATIVE TYPE MOTOR		
8) DIFFERNTIAL TYPE COMPOUND MOTOR	LONG SHUNT, SHORT SHUNT	
9)		
10)		
11)		
12)		

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TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:114
MAIN TOPIC / CHAPTER: DC MOTORS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:10	
SUB TOPIC : DC MACHINE	_____3 RD CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTUES	NCVT WEEK NO.12-13	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)LONG SHUNT CUMMULATIVE TYPE MOTOR		
2)SHORT SHUNT CUMMULATIVE TYPE MOTOR		
3)APPILICATION OF DC MOTOR	ANY TYPES INDUSTRIES, TRAIN ALL HEAVY WORK	
4)DIFFERENT TYPES OF DC MOTOR AND ITS APPLICATION		
5)SERIES, SHUNT, CUMMULATIVE,) DIFFERNTIAL DC MOTOR APPLICATION	PUNCH PRESS, ROLLING MILLS,PRINTING PRESS,FOUR MILLS	
6)SPEED CUURENT CHARACTERSTIC OF DC MOTOR		
7)TORQUE CURRENT CHARACTERSTIC OF DC MOTOR		
8)SPEED TORQUE CHARACTERSTIC OF DC MOTOR		
9)		
10)		
11)		
12)		

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TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:115
MAIN TOPIC / CHAPTER:DC MOTOR(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:10	
SUB TOPIC :SHUNT MOTOR	_____4_TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTUES	NCVT WEEK NO. 12-13	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)SHUNT MOTOR		
2) SPEED CUURENT CHARACTERSTIC OF DC SHUNT MOTOR	GRAPH	
3) TORQUE CURRENT CHARACTERSTIC OF DC MOTOR	GRAPH	
4) SPEED TORQUE CHARACTERSTIC OF DC MOTOR	GRAPH	
5)USE OF SERIES MOTOR AND SHUNT MOTOR ON THE BASIC OF SPEED TORQUE CHARACTERSTIC		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:116
MAIN TOPIC / CHAPTER: DC MOTOR(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:10	
SUB TOPIC :SPEED CONTROL OF DC MOTOR	_____5 TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTUES	NCVT WEEK NO. 14	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)SPEED CONTROL PROCESS OF DC MOTOR	FIELD FLUX,SUPPLY VOLTAGE,ARMATURE REACTION	
2)FIELD FLUX		
3) SUPPLY VOLTAGE,		
4) ARMATURE REACTION		
5)SPEED CONTROL OF SHUNT MOTOR	FIELD CONTROL METHOD, ARMATURE CONTROL METHOD,VARING IN APPILED VOLTAGE SEMI CONDUCTOR DEVICE METHOD	
6)BRIEF DESCRIPTION OF DIFFERENT TYPES OF SPEED CINTROL PROCESS AND THIER ADVANTAGE AND DIS ADVANTAGE		
7)		
8)		
9)		
10)		
11)		
12)		

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:117
MAIN TOPIC / CHAPTER:DC MACHINE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:10	
SUB TOPIC : DC STARTER	___6___TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:14	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)HAND STARTER	D.O.L, 3 POINT, 4 POINT	Fig.27
2)NO VOLT COIL		Fig.28
3)OVER LOAD COIL		
4)FUNCTION OF STARTER		
5)CARE		
6)CIRCUIT DIAGRAM OF 3 POINT STARTER		
7)4 POINT STATER		
8) CIRCUIT DIAGRAM OF 4 POINT STARTER		
9)COMPARISION BETWEEN 3 POINT AND 4 POINT		
10)APPLICATION		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:118
MAIN TOPIC / CHAPTER:DC MACHINE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:10	
SUB TOPIC :STARTER	___7___TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:14	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)REVERSAL OF ROTATIONAL DIRECTION OF DC MOTOR		
2)BY REVERING THE DIRECTION OF ARMATURE CURRENT		
3) BY REVERING THE DIRECTION OF MAGNETIC FIELD		
4) REVERSAL OF ROTATIONAL DIRECTION OF SERIES MOTOR		
5) REVERSAL OF ROTATIONAL DIRECTION OF SHUNT MOTOR		
6) REVERSAL OF ROTATIONAL DIRECTION OF COMPOUND MOTOR		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:119
MAIN TOPIC / CHAPTER:DC MACHINE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:10	
SUB TOPIC :LOSSES OF DC MOTORS	___8_TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:14	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)LOSSES OF DC MOTOR		
2)COPPER LOSSES	FORMULA AND EQUATION	
3)IRON LOSSES		
4)STRAY LOSSES		
5)CONSTANT LOSSES		
6)VARIABLE LOSSES		
7)EFFICIENCY OF DC MOTOR		
8)ELECTRICAL EFFICIENCY		
9)COMMERCIAL EFFICIENCY		
10)MECHENICAL EFFICIENCY		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:120
MAIN TOPIC / CHAPTER:DC MACHINE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:10	
SUB TOPIC :SAFTY AND PRECAUTION	___9____TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:14	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)SAFTY PRECAUTION FOR DC MOTOR		
2)TROUBLES OF DC MOTOR		
3)SELECTION DC MOTOR		
4)FAULTS OF DC MOTOR, THIER CAUSE AND REMEDIES		
5)MATHEMATICAL EQUATION		
6)SHORT QUESTION ANSWER		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:121
MAIN TOPIC / CHAPTER:DC MACHINE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:10	
SUB TOPIC :CLASS TEST	___10____TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:14	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)CLASS TEST OF DC MOTORS		
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

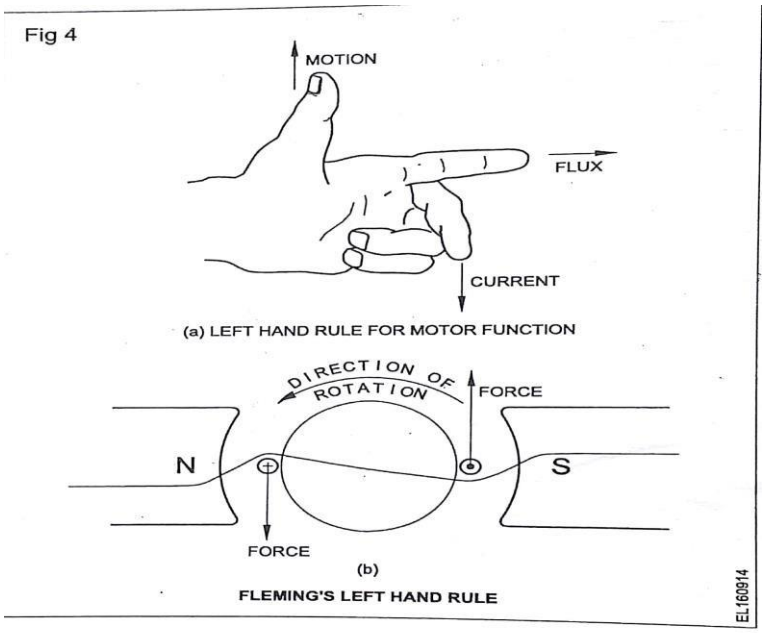
Fig 4
MOTION
FLUX
CURRENT
(a) LEFT HAND RULE FOR MOTOR FUNCTION
DIRECTION OF ROTATION
FORCE
N
S
FORCE
(b)
FLEMING'S LEFT HAND RULE
EL160914

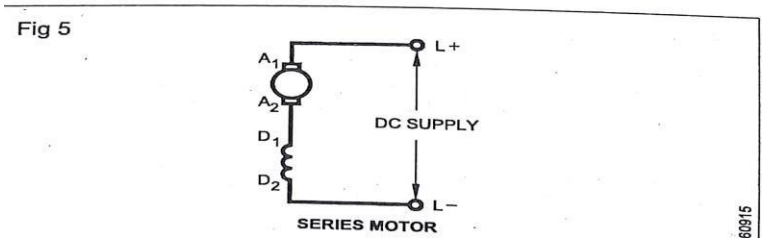
Fig 5
A1
A2
D1
D2
L+
DC SUPPLY
L–
SERIES MOTOR
60915

Fig.26

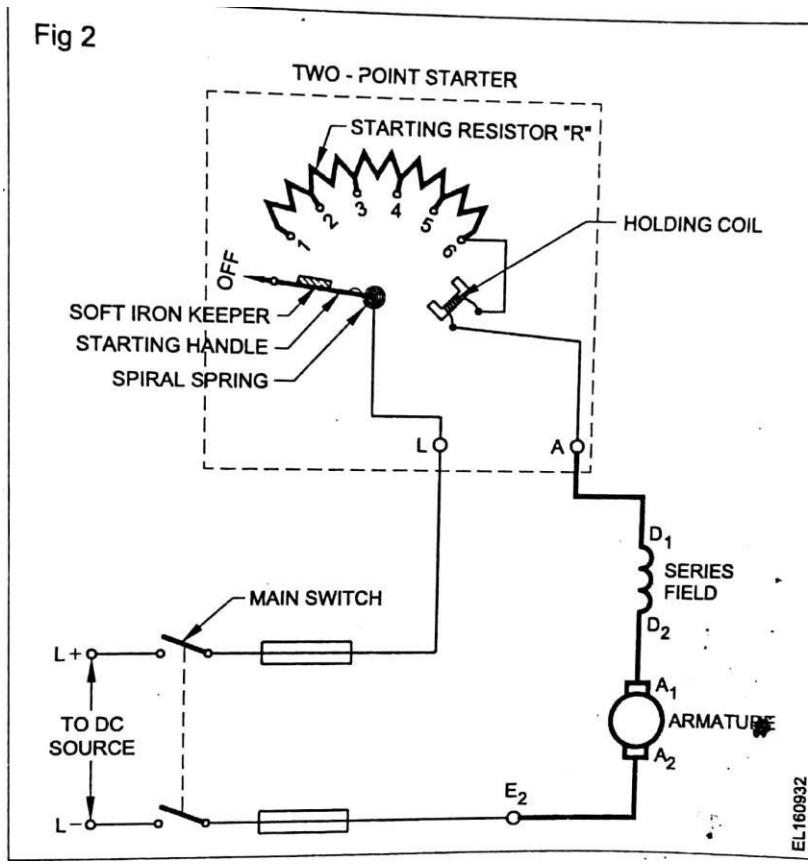
Fig 2
TWO - POINT STARTER
STARTING RESISTOR "R"
1
2
3
4
5
6
HOLDING COIL
OFF
SOFT IRON KEEPER
STARTING HANDLE
SPIRAL SPRING
L
A
D1
SERIES FIELD
D2
MAIN SWITCH
L+
TO DC SOURCE
L–
A1
ARMATURE
A2
E2
EL160932

Fig.27

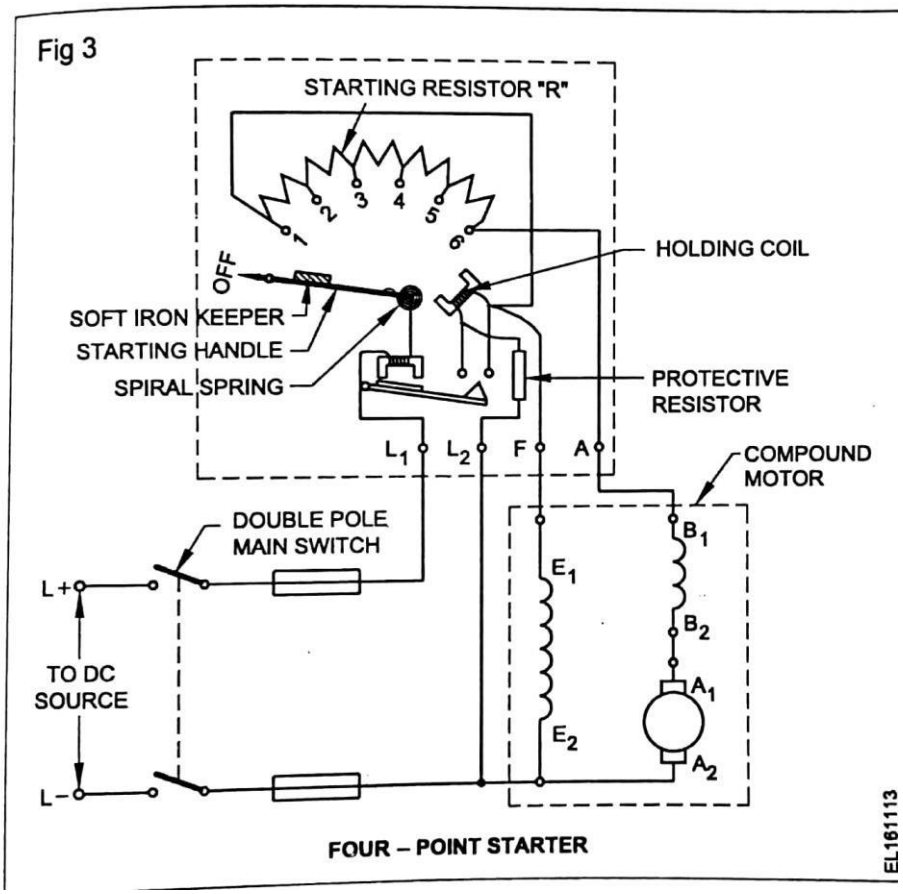
Fig 3
STARTING RESISTOR "R"
1
2
3
4
5
6
OFF
HOLDING COIL
SOFT IRON KEEPER
STARTING HANDLE
SPIRAL SPRING
PROTECTIVE RESISTOR
L1
L2
F
A
COMPOUND MOTOR
DOUBLE POLE MAIN SWITCH
L+
TO DC SOURCE
L–
E1
E2
B1
B2
A1
A2
FOUR – POINT STARTER
EL161113

Fig.28

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:122
MAIN TOPIC / CHAPTER:TRANSFORMER(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11	
SUB TOPIC :BASIC OF TRANSFORMER	_____1ST CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:15-18	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)INTRODUCTION OF TRANSFORMER		
2)DEFINATION OF TRANSFORMER		
3)TRANSFORMER AND ITS WORKING PRINCIPLE		
4)CIRCUIT DIAGRAM OF TRANSFORMER		
5)ADVANTAGE USE OF TRANSFORMER IN AC CURRENT		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:123
MAIN TOPIC / CHAPTER: TRANSFORMER(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11	
SUB TOPIC : CONSTRUCTION\ OF TRANSFORMER	_____2ND CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:15-18	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)CONSTRUCTION OF TRANSFORMER		
2)IRON CORE		
3)WINDINGS		
4)BOX OR COVER		
5)LAMINATED CORING SYSTEM		
6)WINDING OF TRANSFORMER		
6) CYLENDRICAL WINDING		
8)SANDWICH WINDING		
9)BOX OR COVER		
10)		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:124
MAIN TOPIC / CHAPTER: TRANSFORMER(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11	
SUB TOPIC : E.M.F OF TRANSFORMER	3RD CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:15-18	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)TRANSFORMER RATIO	I1/I2=E1/E2=NI/N2	
2)SOME MATHEMATICAL PROBLEM OF TRANSFORMER RATIO		
3) EMF EQUATION		
4) SOME MATHEMATICAL PROBLEM OF TRANSFORMER EMF EQUATION		
5)LAMINATED CORE AND COOLING SYSTEM		
6)PROTECTIVE DEVICE USED WITH TRANSFORMER		
7)IRON LOSS, EDDY CURRENT LOSS ,HYSTERESIS LOSS		
8)		
9)		
10)		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:125
MAIN TOPIC / CHAPTER: TRANSFORMER(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11	
SUB TOPIC : LOSSES OF TRANSFORMER	___4TH_____CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:15-18	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)DETERMINE OF IRON LOSSES AND COPPER LOSSES		
2)DETERMINE OF IRON LOSSES		
3) DETERMINE OF COPPER LOSSES		
4)TRANSFORMER EFFICIENCY		
5)ALL DAY EFFICIENCY		
6)TRANSFORMER REGULATION		
7) TRANSFORMER ON NO LOAD		
8) TRANSFORMER LOAD		
9)		
10)		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:126
MAIN TOPIC / CHAPTER: TRANSFORMER(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11	
SUB TOPIC : TYPES OF TRANSFORMER	___5 TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:15-18	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) TYPES OF TRANSFORMER		
2)ACCORDING TO THE VOLTAGE	STEP DOWN AND STEP UP	
3) ACCORDING TO THE MAGNETIC CORE	CORE TYPE ,SHEEL TYPE, BERRY TYPE	
4) ACCORDING TO THE COOLING SYSTEM	NATURAL AIR COOLED, OIL COOLED,WATER COOLED ,AIR BLAST COOLED	
5) ACCORDING TO THE OUPUT	AUTO TRANSFRMER, CUREEN TRANSFORMER, POTENTIAL TRANSFORMER	
6) ACCORDING TO THE COMMERCIAL USE	POWER AND DISTRIBUTION	
7) ACCORDING TO THE LOCATION	INDOOR AND OUTDOOR	
8) ACCORDING TO THE WINDING	SINGLE PPHASE AND THREE PHASE	
9)		
10)		
11)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:127
MAIN TOPIC / CHAPTER: TRANSFORMER(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11	
SUB TOPIC : TYPES OFTRANSFORMER WORKING PRINCIPLE	___6____TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:15-18	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)STEP UP TRANSFORMER AND ITS WORKING PRINCIPLE		
2) STEP DPWN TRANSFORMER AND ITS WORKING PRINCIPLE		
3)TYPES OF TRANSFORMER ACCORDING TO THE MAGNETIC CORE	CORE TYPE ,SHEEL TYPE ,AND BERRY TYPE	
4)DIFFERENT BETWWEN CORE TYPE AND SHEEL TYPE		
5)SINGLE PHASE TRANSFORMER		Fig.29
6)THREE PHASE TRANSFORMER		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:128
MAIN TOPIC / CHAPTER: TRANSFORMER(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11	
SUB TOPIC : CONNECTION OF TRANSFORMER	___7____TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:15-18	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)THREE PHASE TRANSFORMER CONNECTION	STAR,DELTA,INTERSTAR CONNECTION	
2)STAR CONNECTION		
3)DELTA CONNECTION		
4)INTERSTAR CONNECTION		
5)CONNECTION OF PRIMARY AND SECONDARY WINDING OF A 3 PHASE TRANSFORMER	DELTA STAR,DELTA DELTA,STAR DELTA,STAR STAR,STAR INTERSTAR, INTERSTAR DELTA	
6) BRIEF DESCRIPTION CONNECTION OF PRIMARY AND SECONDARY WINDING OF A 3 PHASE TRANSFORMER		
7)SCOTT CONNECTION		
8)NESSICITY AND METHOD OF COLLING THE TRANSFORMER	METHOD OF COOLING	
9)NEUTRAL AIR CIRCULATION OF COOLING		
10)OIL COOLING		
11)WATER COOLING		
12)AIR BLAST COOLING		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:129
MAIN TOPIC / CHAPTER: TRANSFORMER(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11	
SUB TOPIC : CONSTRUCTION OF TRANSFORMER OF TRANSFORMER	___8____TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO: 15-18	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)CONSTRUCTION OF 3 PHASE TRANSFORMER	LAMINATED IRON CORE, TANK CONSERVATOR, OIL GAUGE,TRANSFORMER OIL, BREATHER,TEMPATURE GAUGE,BUCHHOLZ REALY,EXPLOSION VENT,DRAIN VALVE	
2) LAMINATED IRON CORE		
3) TANK CONSERVATOR		
4) OIL GAUGE		
5) TRANSFORMER OIL,		
6) BREATHER		
7) TEMPATURE GAUGE,BUCHHOLZ REALY,		
8) EXPLOSION VENT,DRAIN VALVE		
9)		
10)		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:130
MAIN TOPIC / CHAPTER: TRANSFORMER(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11	
SUB TOPIC : CONSTRUCTION OF TRANSFORMER OF TRANSFORMER	___9____TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:15-18	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)ALL ABOUT AUTO TRANSFORMER	CIRCUIT DIAGRAM,TRANSFORMER RATIO,ADVANTAGE,DISADVANTAGE,AND USE	
2)INSTRUMENT TRANSFORMER AND ITS TYPE	CURRENT AND POTENTIAL TRANSFORMER	
3)POWER TRANSFORMER	PROTECTIVE DEVICE USED IN POWER TRANSFORMER	
4)REASONS FOR TRANSFORMER USING IN DISTRIBUTION LINE		
5)TRANSFORMER RATING		
6)REASONS FOR PARALLEL OPERATION FOR TRANSFORMER		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:131
MAIN TOPIC / CHAPTER: TRANSFORMER(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11	
SUB TOPIC :CLASS REVIEW	___10____TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:15-18	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)ALL TYPE MATHEMATICAL PROBLEMS ON TRANSFORMER		
2)SHORT QUESTION ANSWER DISSCUSSION		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:132
MAIN TOPIC / CHAPTER: TRANSFORMER(NSQF LEVEL-5)		NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11
SUB TOPIC :CLASS TEST		___11____TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS		NCVT WEEK NO:15-18

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)CLASS TEST OF TRANSFORMER		
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

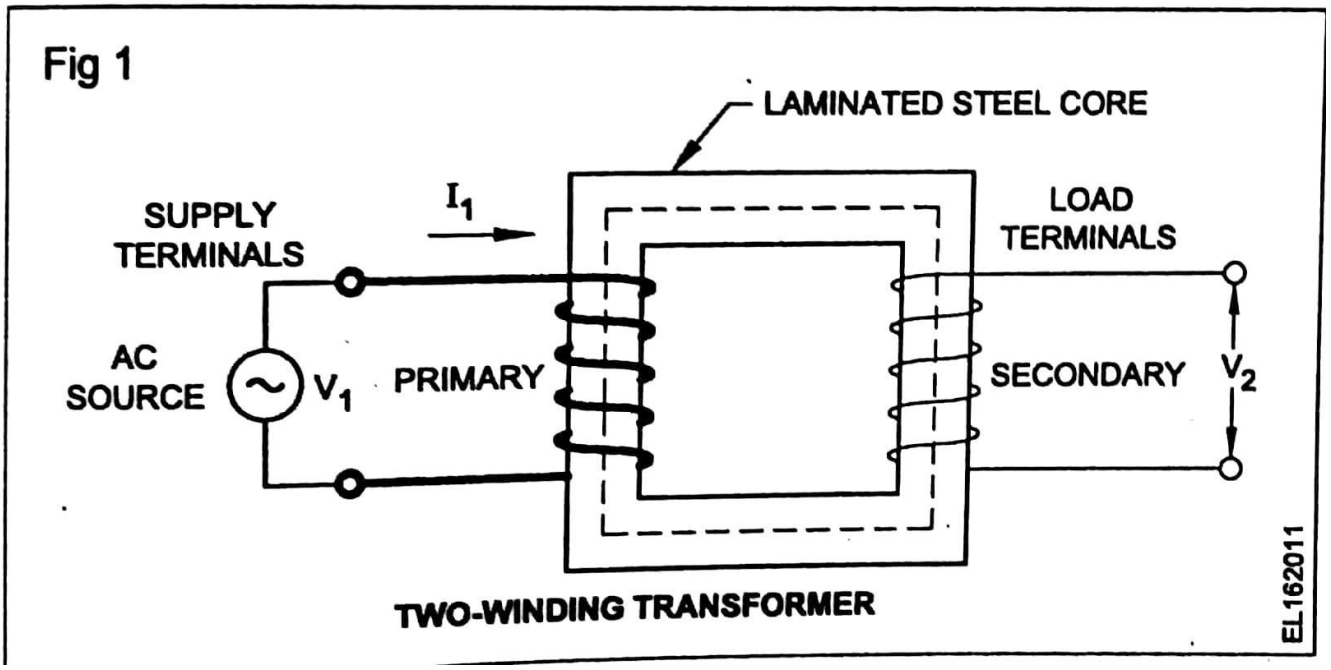
Fig 1
LAMINATED STEEL CORE
SUPPLY TERMINALS
I_1
LOAD TERMINALS
AC SOURCE
V_1
PRIMARY
SECONDARY
V_2
TWO-WINDING TRANSFORMER
EL162011

Fig.29

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:133
MAIN TOPIC / CHAPTER:MEASURING (NSQF LEVEL-5)INSTRUMENT	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9	
SUB TOPIC :TYPES OF MEASURING INSTRUMENT	___1____ST CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:19-21	

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)INTRODUCTION OF MEASURING INSTRUMENT		
2)DIFFERENT TYPES OF MEASURING INSTRUMENT		
3) ACCORDING TO USE	GALVANOMETER, AMMETER,VOLTMETER,WATTMETER,ENGERGYMETER, OHMMETER,MEGGER,P.F METER	
4) ACCORDING TO CHARACTERSTICS	ABSOLUTE INSTRUMENT SECONDARY INSTRUMENT	
5)INDICATING INSTRUMENT		
6)RECORDING INSTRUMENT		
7)INTEGRATING INSTRUMENT		
8)		
9)		
10)		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:134

MAIN TOPIC / CHAPTER: MEASURING (NSQF LEVEL-5)INSTRUMENT	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC :WORKING PRINCIPAL	___2ND CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:19-21

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)ACCORDING TO WORKING PRINCIPAL	ELECTROMAGNETIC INSTRUMENT,ELECTRODYNAMIC INSTRUMENT, ELECTROTHERMAL INSTRUMENT,ELECTROCHEMICAL INSTRUMENT.	
2)FORCE ACTING ON INSTRUMENT		Fig.30
3)CINTROLLING FORCE		
4)DAMPING FORCE		
5)PARMARENT MAGNET MOVING COIL		Fig.31
6)		
7)		
8)		
9)		
10)		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:135

MAIN TOPIC / CHAPTER: MEASURING (NSQF LEVEL-5)INSTRUMENT	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC :PMMC	3rd CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO: 19-21

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)INTRODUCTION OF PMMC		
2)WORKING PRINCIPLE		
3)ADVANTAGE OF PMMC		
4)DISADVANTAGE OF PMMC		
5)EXTENSION OF INSTRUMENT RANGE		
6)CONNECTED FORMULA		
7)SOME MATHEMATICAL PROBLEMS		
8)		
9)		
10)		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:136

MAIN TOPIC / CHAPTER: MEASURING (NSQF LEVEL-5)INSTRUMENT	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC :MOVING IRON INSTRUMENTS	___4 TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:19-21

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) INTRODUCTION OF MI		
2) WORKING PRINCIPLE		
3) TYPES OF MI	ATTRACTION AND REPULSION TYPES	
4) ADVANTAGE OF MI		
5) DISADVANTAGE OF MI		
6)COMPARISON BETWEEN MC AND MI TYPE INSTRUMENTS		
7)INTRODUCTION OF ELECTRO DYNAMIC INSTRUMENTS	DYNAMOMETER	
8)WORKING PRINCIPLE		
9) ADVANTAGE		
10) DISADVANTAGE		
11)		
12)		

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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:137

MAIN TOPIC / CHAPTER: MEASURING (NSQF LEVEL-5)INSTRUMENT	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC :DYNAMOMETER	__5____TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:19-21

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) DYNAMOMETER-INTRODUCTION	WORKING AS WATTMETR	
2)WORKING PRINCIPLE		
3)ADVANTAGES		
4)DISADVANTAGES		
5)ELECTRO THERMAL INSTRUMENTS		
6)TEYPES THERMAL INSTRUMENTS	THERMOCOUPLE TYPES,HOT WIRE TYPES,	
7)DESCRIPTION		
8)		
9)		
10)		
11)		
12)		

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO-138

MAIN TOPIC / CHAPTER: MEASURING (NSQF LEVEL-5)INSTRUMENT	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC :ENERGY METER	___6____TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:19-21

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)INTRODUCTION	ELECTROLYTIC METER,MOTOR METER, CLOCK METER	
2) CLOCK METER	FERRANTI DC AMPERE HOUR METER,ELIHU THOMSON COMMUTATOR WATTMETER.	
3)INDUCTION ENERGY METER		
4)ADVANTAGE		
5)DISADVANTAGE		
6)DESCRIPTION		
7)SINGLE PHASE ENERGY METER		
8)THREE PHASE ENERGY METER	CYCLO DIAL, CLOCK DIAL AND NUMBER DIAL	
9)WORKING PRINCIPLE		
10)		
11)		

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:139

MAIN TOPIC / CHAPTER: MEASURING (NSQF LEVEL-5)INSTRUMENT	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC :TYPES OF METER	__7____TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:19-21

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)OHM METER		
2) OHM METER WORKING PRINCIPLE		
3)MULTIMETER		
4) MULTIMETER WORKING PRINCIPLE		
5)TYPES OF MULTIMETER	ANALOGUE AND DIGITAL	
6) ANALOGUE MULTIMETER		
7) DIGITAL MULTIMETER		
8)		
9)		
10)		
11)		
12)		

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:140

MAIN TOPIC / CHAPTER: MEASURING (NSQF LEVEL-5)INSTRUMENT	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC :TYPES OF METER	__8____TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:19-21

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)POWER FACTOR METER INTRODUCTION		
2) TYPES POWER FACTOR	SINGLE PHASE,THREE PHASE	
3) SINGLE PHASE POWER FACTOR WORKING PRINCIPLE		
4) THREE PHASE POWER FACTOR WORKING PRINCIPLE		
5)FREQUENCY METER INTRODUCTION		
6) TYPES OF FREQUENCY METER	VIBRATING REED, ELECTRO DYNAMIC AND MOVIM\NG IRON	
7) PHASE SEQUENCE INDICATOR		
8)WORKING PRINCIPLE PHASE SEQUENCE INDICATOR	A-B-C OR C-B-A TYPES	
9)TONG TESTER AND TECHOMETER		
10) TONG TESTER AND TECHOMETER WORKING PRINCIPLE		
11)		
12)		

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP
MASTER TEACHING PLAN

TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:141

MAIN TOPIC / CHAPTER: MEASURING INSTRUMENT(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC :CLASS TEST	__9____TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:19-21

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) CLASS TEST OF MEASURING INSTRUMENT		
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		

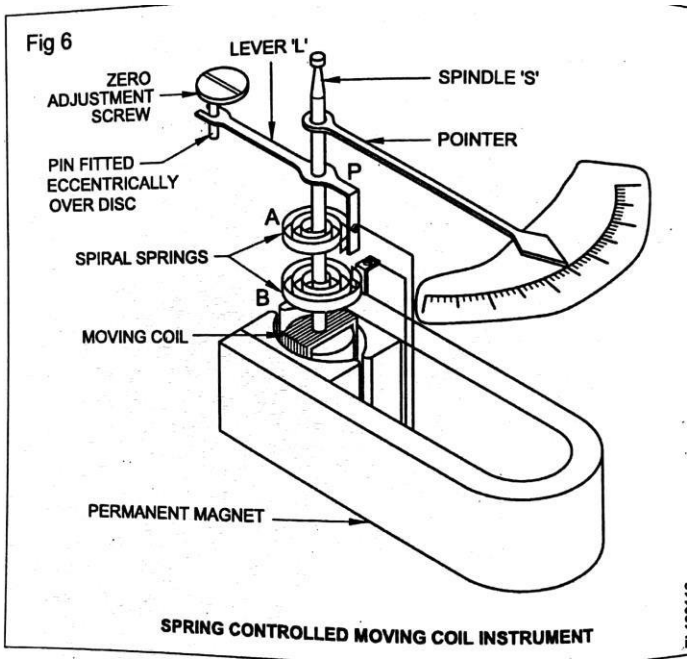
Fig 6
LEVER 'L'
ZERO ADJUSTMENT SCREW
SPINDLE 'S'
POINTER
PIN FITTED ECCENTRICALLY OVER DISC
P
A
SPIRAL SPRINGS
B
MOVING COIL
PERMANENT MAGNET
SPRING CONTROLLED MOVING COIL INSTRUMENT

Fig.30

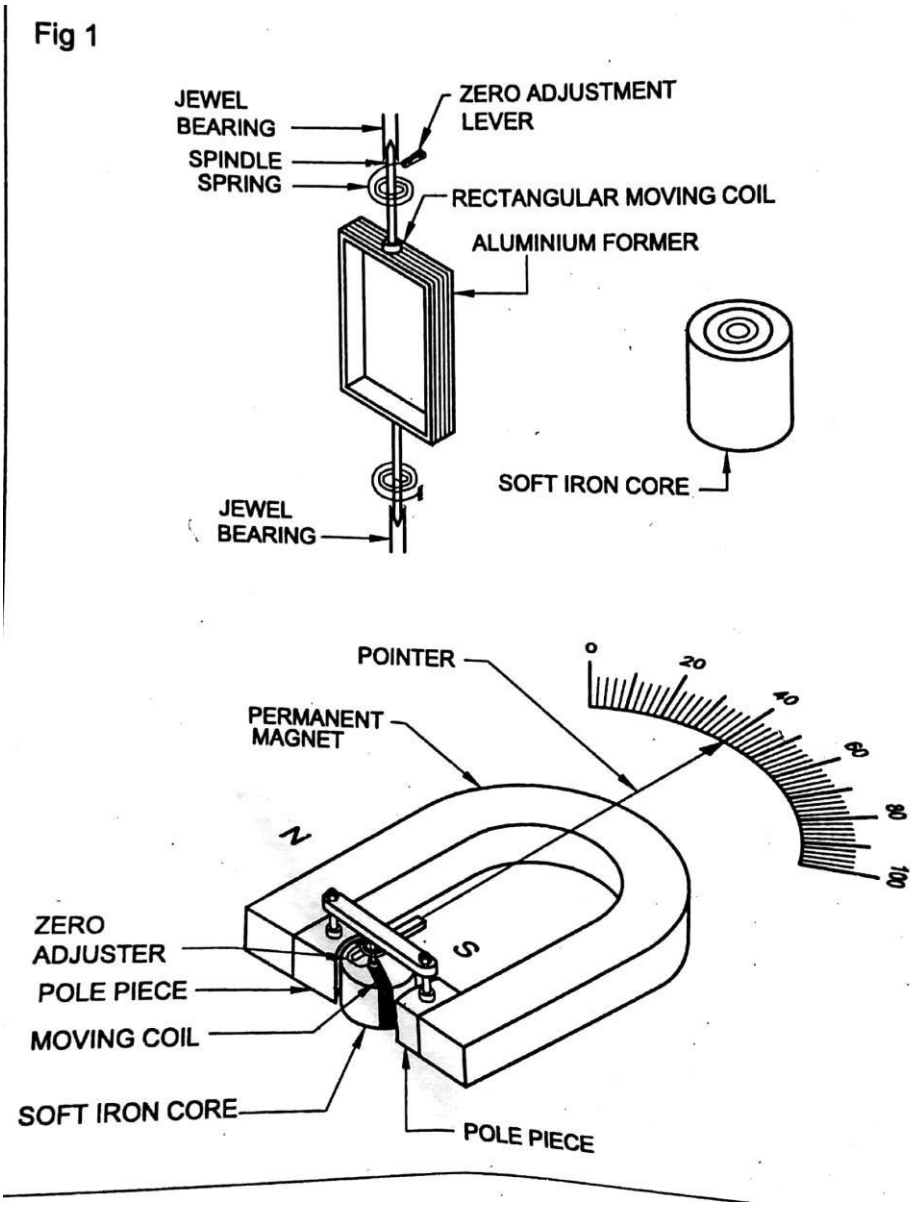
Fig 1
JEWEL BEARING
ZERO ADJUSTMENT LEVER
SPINDLE SPRING
RECTANGULAR MOVING COIL
ALUMINIUM FORMER
SOFT IRON CORE
JEWEL BEARING
POINTER
PERMANENT MAGNET
0
20
40
60
80
100
N
S
ZERO ADJUSTER
POLE PIECE
MOVING COIL
SOFT IRON CORE
POLE PIECE

Fig.31