

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	1STCLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-1	

KEY POINTS &	EXAMPLE /	PHOTO / VIDEO / PRESENTATION/ WALL
DESCRIPTION (AT LEAST 10	INDUSTRY	CHART
NOS PER CLASS)	EXAMPLE	
1) Basic safety introduction		
1) Busic surety introduction		
2) Classification of safety	Conoral cofety	
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)		
,		
		Used australias
		Head protection Falling or flying objects, Blowing dust or particles, metal shavings,
		overhead objects acids or caustic liquids, welding light
		Hearing protection High-visibility hat, vest, pants
		Loud tools and machinery, poorly maintained equipment
		Chaps pants Chainsaws Hand protection Sharp or hot objects, chemicals,
		biological or electrical hazards
		(H)
		Harness lanyard
		Falling or rolling objects, Working more than 6 feet or more
		sharp or heavy objects, wet and slippery surfaces, uneven
		surfaces, hot surfaces, electrical hazards
		Ciccinca nazaros
6)		



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	2 nd CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-1	

EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
Prohibition signs, Mandatory signs, Warning signs, Information signs	
	Fig1
	Fig2
	Fig3
	Prohibition signs, Mandatory signs, Warning signs,







Fig 2
Waring sign

Fig 1 mandatory sign



Fig3
Information sign



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	3 rd CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-1

EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
	Fig4





Types of fire extingushier

Fig 4



TRADE: ELCTRICIAN

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR. CLASS NO:4

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

TYPE OF CLASS: THEORY

		I
KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	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)		



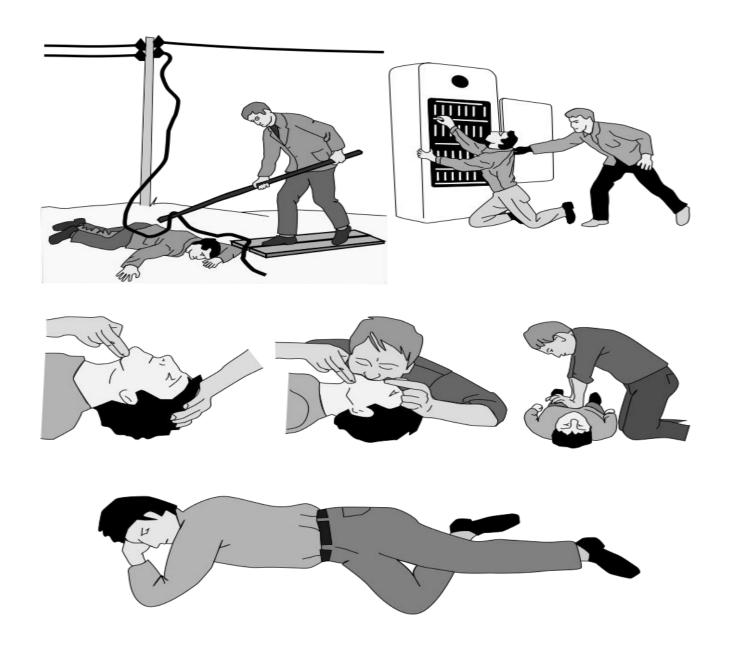


Fig5
Safty process of electrical accident



TRADE: ELCTRICIAN

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:5

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

TYPE OF CLASS: THEORY

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)		
	1	



TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY		1ST YEAR CLASS NO:6	
	-1			l
MAIN TOPIC / CHAPTER:			NO OF CLASS I	N THIS MAIN TOPIC /
SOFT SKILLS (NSQF LEVEL – 5)			CHAPTER:4	
GLID TODIC GOLT GIVILLG				
SUB TOPIC : SOFT SKILLS			2 nd CLA	ASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR	20 MINTS		NCVT MAIN TO	OPIC WEEK NO-1
KEY POINTS & DESCRIPTION	EXAMPLE /	рH	OTO / VIDEO / PI	RESENTATION/WALI
(AT LEAST 10 NOS PER	INDUSTRY		PHOTO / VIDEO / PRESENTATION/ WALL CHART	
CLASS)	EXAMPLE			
1) Introduction of PPEs.				
2) Introduction to 5S concept &				
its application		\SF	PITISERVER\elect	rician\COMMON\Electrician
			sem video\5s conc	
3) Response to emergencies	Power failure, Fire			
	and System failure			
4)				
(4)				
5)				
6)				
(0)				
7)				
8)				
9)				
7)				
10)				
11)				
12)				
12)				



TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:7
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MAIN TOPIC / CHAPTER: IDENTIFICATION OF	NO OF CI	LASS IN THIS MAIN TOPIC /
TRADE-HAND TOOLS SPECIFICATIONS, USES AND	CHAPTER:9	
THEIR CARE MAINTENANCE (NSQF LEVEL – 5)		
SUB TOPIC : COMBINATION PLIERS, FLAT NOSE		
PLIERS & LONG NOSE PLIERS	1ST	CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MA	AIN TOPIC WEEK NO-2

EXAMPLE /	PHOTO / VIDEO /
INDUSTRY EXAMPLE	PRESENTATION/ WALL CHART
Combination pliers, Flat	
nose pliers, Long nose pliers, Screwdriver etc	
	Fig6
	Fig7
	Fig8
	INDUSTRY EXAMPLE Combination pliers, Flat nose pliers, Long nose







Fig6
Combination pliers

fig7 flat nose pliers



Fig 8
Long nose pliers



TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:8
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MAIN TOPIC / CHAPTER: IDENTIFICATION OF	NO OF CLASS IN THIS MAIN TOPIC /	
TRADE-HAND TOOLS SPECIFICATIONS, USES AND	CHAPTER:9	
THEIR CARE MAINTENANCE (NSQF LEVEL – 5)		
SUB TOPIC : SIDE CUTTING PLIERS, ROUND NOSE	150	
PLIERS , SCREWDRIVER & NEON TESTER	2 ND 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 Fig10
Side cutting pliers round nose pliers



Fig11 fig12
Neon tester screw driver



TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:9
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MAIN TOPIC / CHAPTER: IDENTIFICATION OF	NO OF CLASS IN THIS MAIN TOPIC /	
TRADE-HAND TOOLS SPECIFICATIONS, USES AND	CHAPTER:4	
THEIR CARE MAINTENANCE (NSQF LEVEL – 5)		
SUB TOPIC : ELECTRICIAN KNIFE, HAMMER, TRY	DD.	
SQUARE & FIRMER CHISEL	3 RD 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

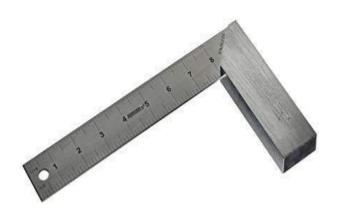




Fig 15

Fig 16

Try square

firmer chisel



TRADE: ELCTRICIAN TY	YPE OF CLASS: THEORY	1ST YEAR CLASS NO:10
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MAIN TOPIC / CHAPTER: IDENTIFICATION OF	NO OF CLASS IN THIS MAIN TOPIC /	
TRADE-HAND TOOLS SPECIFICATIONS, USES AND	CHAPTER:9	
THEIR CARE MAINTENANCE. (NSQF LEVEL – 5)		
SUB TOPIC : SAFETYTENON SAW, WOOD RASP		
FILE, FILES & PLUMB BOB.	4 TH 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		





Tenon saw

Fig 19 all types of file



Fig 18 Fig 19

Wood rasp file

plumb bob



TRADE: ELCTRICIAN TYPE OF C	LASS: THEORY 1ST YEAR CLASS NO:11
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MAIN TOPIC / CHAPTER: IDENTIFICATION OF	NO OF CLASS IN THIS MAIN TOPIC /	
TRADE-HAND TOOLS SPECIFICATIONS , USES AND	CHAPTER:9	
THEIR CARE MAINTENANCE. (NSQF LEVEL – 5)		
SUB TOPIC : POKER, GIMLET, CENTRE PUNCH &		
MALLET	5THCLASS OF THE MAIN	
	TOPIC	
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-3	

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
		WALL CHART
1) Poker - Draw and Identification		Fig20
2) Poker -Description		
3) Poker -Care and maintenance		
3) I oker -Care and maintenance		
4) Gimlet - Draw and Identification		Fig21
,		8
5) Gimlet - Description		
6) Gimlet - Care and maintenance		
7) Centre punch - Draw and Identification		Fig22
7) Centre puner Bruw and Identification		11522
8) Centre punch - Description		
9) Centre punch - Care and maintenance		
10) Mallet - Draw and Identification		Fig23
10) Manet Blaw and Identification		11920
11) Mallet - Description		
12) Mallet - Care and maintenance		





Fig22 Center punch

Fig23 mallet



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

KEY POINTS & DESCRIPTION (AT	EXAMPLE /	PHOTO / VIDEO /
LEAST 10 NOS PER CLASS)	INDUSTRY	PRESENTATION/ WALL
	EXAMPLE	CHART
1) Ratchet brace- Draw and Identification		Exposed ratchet Pawl Gear
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		American description (* 100 de consequente de calculation de consequente de conse
9) Rawl plug tool & bit - Care and		
maintenance		
10) Spanner - Draw and Identification		
20, Spanier Stan and Identification		
11)) Spanner - Description		
11) / Spanner Description		
12) Spanner - Care and maintenance		
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TRADE: ELCTRICIAN

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:13

MAIN TOPIC / CHAPTER: OCCUPATIONAL SAFETY	NO OF CLASS IN THIS MAIN TOPIC /
AND HEALTHIDENTIFICATION OF TRADE-HAND	CHAPTER:4
TOOLS SPECIFICATIONS , USES AND THEIR CARE	
MAINTENANCE. (NSQF LEVEL – 5)	
SUB TOPIC : SAFETY RING SPANNER SET, SOCKET	
SPANNER, SINGLE ENDED OPEN JAW	7THCLASS OF THE MAIN
ADJUSTABLE SPANNER SET & MEASURING STEEL	TOPIC
TAPE	
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-3

TYPE OF CLASS: THEORY

EXAMPLE / INDUSTRY	PHOTO / VIDEO / PRESENTATION/ WALL
EXAMPLE	CHART
	999999
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TRADE : ELCTRICIAN TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:14
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MAIN TOPIC / CHAPTER: IDENTIFICATION OF	NO OF CLASS IN THIS MAIN TOPIC /	
TRADE-HAND TOOLS SPECIFICATIONS, USES AND	CHAPTER:9	
THEIR CARE MAINTENANCE (NSQF LEVEL – 5)		
SUB TOPIC : HACKSAW, PINCERS, HAND DRILL,		
PORTABLE ELECTRIC DRILLING MACHINE	_8THCLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-3	

LIEV DOINTEG & DEGODIDATION (ATLIE AGE	EVAMBLE /	DIJOTO / VIDEO /
KEY POINTS & DESCRIPTION (AT LEAST	EXAMPLE /	PHOTO / VIDEO /
10 NOS PER CLASS)	INDUSTRY	PRESENTATION/ WALL
	EXAMPLE	CHART
4) 77 1 5 171 101 1	EXAMILE	CIAKI
1) Hacksaw- Draw and Identification		
2) Healman Description		
2) Hacksaw – Description		
3) Hacksaw - Care and maintenance		
3) Hacksaw - Care and maintenance		
4) Pincers - Draw and Identification		
1 Theers - Draw and Identification		
5) Dingong Description		
5) Pincers – Description		
6) Pincers - Care and maintenance		
o) I meers - care and maintenance		
7) Hand drill- Draw and Identification		
		HARAGERA
		ALTERNATION OF THE PROPERTY OF
0) 11 11 11 15 1 1		
8) Hand drill – Description		
9) Hand drill - Care and maintenance		
1) Hand drift - Care and maintenance		
10) Portable electric drilling machine- Draw and		Management of the Control of the Con
Identification		
Identification		
11) Portable electric drilling machine -		
Description		
12) Portable electric drilling machine - Care and		
· · · · · · · · · · · · · · · · · · ·		
maintenance		



TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:15	
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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	9THCLASS OF THE MAIN
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-3

KEY POINTS & DESCRIPTION (AT	EXAMPLE /	PHOTO / VIDEO / PRESENTATION/
LEAST 10 NOS PER CLASS)	INDUSTRY EXAMPLE	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		



TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY		1ST YEAR CLASS NO:16
MAIN TOPIC / CHAPTER: FUNDA ELECTRICITY. ELECTRON THEO ELECTRON, FUNDAMENTAL TE DEFINITIONS, UNITS & EFFECTS CURRENT (NSQF LEVEL – 5)	ORY- FREE RMS,	NO OF CLASS I CHAPTER:9	N THIS MAIN TOPIC /
SUB TOPIC : FUNDAMENTAL OF ELECTRICITY SAFETY DURATION OF CLASS: 1HOUR 20 MINTS			ASS OF THE MAIN TOPIC DPIC 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)		



TRADE: ELCTRICIAN

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:17

MAIN TOPIC / CHAPTER: FUNDAMENTAL OF	NO OF CLASS IN THIS MAIN TOPIC /
ELECTRICITY. ELECTRON THEORY- FREE	CHAPTER:9
ELECTRON, FUNDAMENTAL TERMS,	
DEFINITIONS, UNITS & EFFECTS OF ELECTRIC	
CURRENT (NSQF LEVEL – 5)	
SUB TOPIC : SIMPLE ELECTRIC CIRCUIT AND ITS	
ELEMENT.	2 ND CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-3

TYPE OF CLASS: THEORY

KEY POINTS & DESCRIPTION (AT	EXAMPLE /	PHOTO / VIDEO / PRESENTATION/
LEAST 10 NOS PER CLASS)	INDUSTRY	WALL CHART
	EXAMPLE	
1) Introduction		
2) Circuit diagram of simple electric		Simple Electric Circuit
circuit and Description		
		battery
		light bulb
		switch
3) Connection diagram of ammeter		Simple Electric Circuit
		Simple Liebuit Girbuit
		battery
		Tight bulb
		switch
4) Measurement of ampere		
5) Connection diagram of voltmeter		Simple Electric Circuit
		battery
		Tight bulb 🚫
		switch
		`
6) Measurement of voltage		



TRADE: ELCTRICIAN

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:18

TYPE OF CLASS: THEORY

MAIN TOPIC / CHAPTER: FUNI ELECTRICITY. ELECTRON THI ELECTRON, FUNDAMENTAL T DEFINITIONS, UNITS & EFFEC CURRENT (NSQF LEVEL – 5)	EORY- FREE ΓERMS,		NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : SIMPLE ELECTRIC	C CIRCUIT AND IT	S	PD
ELEMENT.			_3 RD CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR	20 MINTS		NCVT MAIN TOPIC WEEK NO-3
	T	T	
KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE		OTO / VIDEO / PRESENTATION/ WALL ART
1) Description about resistance			
2) Measurement of resistance			
3) International Ohm, Ampere & Volt			
4) Conductance			
5) Electromotive force(emf)		-	PITISERVER\electrician\COMMON\Electrician sem video\Electromotive force
6) Terminal voltage			
0) = ========			
7) Quantity of electricity			
8) Coulomb			
9)			
10)			
11)			
12)			
		I	



TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:19
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MAIN TOPIC / CHAPTER: FUNDAMENTAL OF	NO OF CLASS IN THIS MAIN TOPIC /
ELECTRICITY. ELECTRON THEORY- FREE	CHAPTER:9
ELECTRON, FUNDAMENTAL TERMS,	
DEFINITIONS, UNITS & EFFECTS OF ELECTRIC	
CURRENT (NSQF LEVEL – 5)	
SUB TOPIC: TYPES OF ELECTRICAL SUPPLY	
	4 TH 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) 1) Introduction	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
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		Battery Half-wave rectification Full-wave rectification
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		Alternating Current Wave



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

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

KEY POINTS & DESCRIPTION (AT	EXAMPLE /	PHOTO / VIDEO / PRESENTATION/
LEAST 10 NOS PER CLASS)	INDUSTRY EXAMPLE	WALL CHART
1) Introduction		
2) Immentes as of malarity		
2) Importance of polarity		
3) Testing polarity by MC meter		Vc = Va · Vb Va + Vb Subtractor Polarity GElprous.com
4) Polarity of the battery		
5) Polarity of DC supply		



TRADE: ELCTRICIAN

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:21

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

TYPE OF CLASS: THEORY

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KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
		WALL CHART
1) Marking made in practice		
1) Indiana in practice		
2) Neon polarity indicator		
3) Chemical effect		
e) envinced visco		
4) II (' CC (
4) Heating effect		
5) Magnetic effect		
, ,		
6) Gas ionization effect		
o) Gas formzation effect		
7) 6 11 66 4		
7) Special rays effect		
8) Shock effect		
9)		
10)		
10)		
11)		
12)		
12)		



TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:22
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MAIN TOPIC / CHAPTERFUNDAMENTAL OF	NO OF CLASS IN THIS MAIN TOPIC /
ELECTRICITY. ELECTRON THEORY- FREE	CHAPTER:9
ELECTRON, FUNDAMENTAL TERMS,	
DEFINITIONS, UNITS & EFFECTS OF ELECTRIC	
CURRENT (NSQF LEVEL – 5)	
SUB TOPIC : JOINTS IN ELECTRICAL CONDUCTOR	
	7 TH 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) 1) Introduction	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
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		© Gene Haynes



8) Married joint-Drawing & Description	Western Union splice
9) Tee joint-Drawing & Description	Solderat this point only.
10) Britannia joint- Drawing & Description	
11)	



TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:23
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MAIN TOPIC / CHAPTER: FUNDAMENTAL OF	NO OF CLASS IN THIS MAIN TOPIC /
ELECTRICITY. ELECTRON THEORY- FREE	CHAPTER:4
ELECTRON, FUNDAMENTAL TERMS,	
DEFINITIONS, UNITS & EFFECTS OF ELECTRIC	
CURRENT (NSQF LEVEL – 5)	
SUB TOPIC : JOINTS IN ELECTRICAL CONDUCTOR	TV
	8 TH 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		Solderal this point only.
2) Western union joint-Drawing & Description		
3) Scarfed joint-Drawing & Description		BARE WIRES FIXTURE WIRE MAIN WIRE BENT OVER FIXTURE WIRE WRAPPED AROUND HOOK



4) Plain tap joint-Drawing &		
Description		Plain tap joint
		Train tap joint
		This is used where the tap wire is under
		considerable tensile stress circuit.
		uu o
		₩.
		A A
5) Aerial tap joint-Drawing &		WESTERN UNION 2000T
Description		[LONG]
		(PHOSE)
		TAP OR THE SCHIT SMALL ARRIAL TAP OR TJOINT MAAN
6) Knotted tap joint-Drawing &		MAIN WIRE
Description		
		BRANCH
7) Duplex cross tap joint-Drawing		BRITANIA JOINT
& Description		WEAPPEO TAP THE JOINT
		TROUGH FIXTURE JOINT
		TROOMS THE SELECTION OF
8) Double cross tap joint-Drawing		BARE WIRES
& Description		EXTURE WHEE
-		
		MAIN WIRE FIXTURE WIRE WARPEON OF AROUND HOOK
9)		
10)		
11)		
12)		
	1	



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

MAIN TOPIC / CHAPTER: FUNDAMENTAL OF	NO OF CLASS IN THIS MAIN TOPIC /
ELECTRICITY. ELECTRON THEORY- FREE	CHAPTER:4
ELECTRON, FUNDAMENTAL TERMS,	
DEFINITIONS, UNITS & EFFECTS OF ELECTRIC	
CURRENT (NSQF LEVEL – 5)	
SUB TOPIC : CABLE END TERMINATION	771
	9 TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-4-5

KEY POINTS & DESCRIPTION (AT	EXAMPLE /	PHOTO / VIDEO / PRESENTATION/
LEAST 10 NOS PER CLASS)	INDUSTRY EXAMPLE	WALL CHART
1) Introduction		
2) Types of termination	Insert type, Arrow type, R type et	
3) Drawing of connection process		Upstream DCS FIG Duplexing KS cable D series signal conditioner Diplexing rest
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		



TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR. CLASS NO:25
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MAIN TOPIC / CHAPTER: FUNDAMENTAL OF	NO OF CLASS IN THIS MAIN TOPIC /
ELECTRICITY. ELECTRON THEORY- FREE	CHAPTER:4
ELECTRON, FUNDAMENTAL TERMS,	
DEFINITIONS, UNITS & EFFECTS OF ELECTRIC	
CURRENT (NSQF LEVEL – 5)	
SUB TOPIC : SOLDERING PRACTICE	
	1 ST CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-5

	T	T
KEY POINTS & DESCRIPTION (AT	EXAMPLE /	PHOTO / VIDEO / PRESENTATION/
LEAST 10 NOS PER CLASS)	INDUSTRY	WALL CHART
	EXAMPLE	
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		
<u>-</u>		So/dering iron in stand
		Damp sponge
		Soider Wire strippers
		Prototype Solder braid
7) Soldering with a soldering gun		
8) Soldering with a flame		
9) Dip soldering		
10) Machine soldering		
-, <u>-</u>		
11)		
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TRADE: ELCTRICIAN

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:26

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

TYPE OF CLASS: THEORY

KEY POINTS & DESCRIPTION	EXAMPLE /	DUOTO / VIDEO / DDECENTATION/ WALL
		PHOTO / VIDEO / PRESENTATION/ WALL
(AT LEAST 10 NOS PER	INDUSTRY	CHART
CLASS)	EXAMPLE	
1) Introduction		
2) Soldering with electric soldering		
iron		
11011		
2) Salaating the hit		
3) Selecting the bit		\
4) Care of bit		
5) Dressing the bit		
, 8		
6) Cleaning the bit		
o) Cleaning the bit		
7) Soldering		
7) Soldering		
9) Taskaisuss of saldaring incu		CDITICED VED -14::-:
8) Techniques of soldering iron		SPITISERVER\electrician\COMMON\Electrician
		1st sem video\DC electric supply
0)		
9)		
10)		
11)		
12)		
/		
	i	



SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:27

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

KEY POINTS & DESCRIPTION	EXAMPLE /	PHOTO / VIDEO / PRESENTATION/ WALL
(AT LEAST 10 NOS PER	INDUSTRY	CHART
CLASS)	EXAMPLE	
1) Soldering of aluminium cable		
2) Procedure for soldering		SPITISERVER\electrician\COMMON\Electrician
aluminium		1st sem video\DC electric supply
3) Precaution		
10		
4) Safety		
5)		
(3)		
6)		
9,		
7)		
8)		
9)		
3)		
10)		
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TRADE : ELCTRICIAN TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:28
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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	4 TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-6

KEY POINTS & DESCRIPTION (AT	EXAMPLE /	PHOTO / VIDEO / PRESENTATION/
LEAST 10 NOS PER CLASS)	INDUSTRY	WALL CHART
1) Introduction	EXAMPLE	
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		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		TTTTT
6) Types of resistor lead	Axial lead, Radial	<i>y</i> 11 11 11 11
-) -JF	lead, Terminal lugs.	
7) Properties of resistors		
8)		
0)		
9)		
10)		



SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

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		1STCLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1HOUR 20 MIN	TS	NCV	T MAIN TOPIC WEEK NO-6
		I	
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			2 cores 3 cores 5 cores
5) Definition of Insulators & example	Wood, Rubber, etc	Glass	
6) Definition of Semi-conductors & example Germenium 7)			
8)			
9)			
10)			



	T		
TRADE : ELCTRICIAN	TYPE OF CLASS: T	HEORY	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 CHAPTER:3	S IN THIS MAIN TOPIC /
SUB TOPIC : INSULATORS & WI	RES	2 ND CI	LASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 2	0 MINTS	NCVT MAIN	TOPIC WEEK NO-6-7
KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDE CHART	EO / PRESENTATION/ WALL
1) Voltage grading of different types of Insulators		Groove for conductor (i)	Sheds or Petti - coats Cementing Galvanised steel pin (ii) 8.5. Pin-type insulator
2) Temp rise permissible of different types of Insulators			20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
3) Properties of Insulator		\	
4) Specification of wires			
5) Standard wire gauge		STAN STAN WIRE	9 S A A A A A A A A A A A A A A A A A A



TRADE: ELCTRICIAN TYPE	OF CLASS: THEORY	1ST YEAR CLASS NO:31
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MAIN TOPIC / CHAPTER: INTRODUCTION OF NATIONAL	NO OF CLASS IN THIS MAIN TOPIC /	
ELECTRICAL CODE 2011 EXPLANATION, DEFINITION AND	CHAPTER:	
PROPERTIES OF CONDUCTORS (NSQF LEVEL -5)		
SUB TOPIC : TYPES OF CABLES		
	_3 RD CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-6-5	

	T	DIAGNO AMBRO ABBROTANI PROGRAMA
KEY POINTS &	EXAMPLE /	PHOTO / VIDEO / PRESENTATION/ WALL CHART
DESCRIPTION (AT	INDUSTRY	
LEAST 10 NOS PER	EXAMPLE	
CLASS)		
1) Specification of cables		
insulation		
2) Voltage grades of cables -		- AV
Low , medium & high voltage		
		8 7 8 5 4 3 2 1
3) Precautions in using		
various types of cables		
various types of cables		
A) =		
4) Precautions in using		
various types of Ferrules		
5)		
6)		
0)		
7)		
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SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:

MAIN TOPIC / CHAPTER: OHM'S LAW - SIMPLE	NO OF CLASS IN THIS MAIN TOPIC /
ELECTRICAL CIRCUITS AND PROBLEMS (NSQF LEVEL -5)	CHAPTER:4
SUB TOPIC :OHM'S LAW - SIMPLE ELECTRICAL	0.00
CIRCUITS AND PROBLEMS	_1 ST CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-6-7

KEY POINTS &	EXAMPLE /	PHOTO / VIDEO / PRESENTATION/ WALL CHART
DESCRIPTION (AT LEAST	INDUSTRY	
10 NOS PER CLASS)	EXAMPLE	
1) Ohm's Law		$ \begin{array}{c cccc} \hline \mathbf{I} & \mathbf{R} & \mathbf{I} & \mathbf{R} \\ \hline \mathbf{V} & = \mathbf{I} \times \mathbf{R} & \mathbf{I} & \mathbf{R} & \mathbf{R} & = \frac{\mathbf{V}}{\mathbf{I}} \end{array} $
2) Simple electrical circuits		W-1xk I-R K-I
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		R_1 =4 Ω R_2 =12 Ω V =18 V



	ΓRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:33	
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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 :	2 ND 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		9 V = 3 kΩ
4) parallel circuits		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
5) Problems on series & parallel circuit		



TRADE : ELCTRICIAN TYPE OF CLA	SS: THEORY 1ST YEAR CLASS NO:34
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$MAIN\ TOPIC\ /\ CHAPTER:\ OHM'S\ LAW-SIMPLE$ $ELECTRICAL\ CIRCUITS\ AND\ PROBLEMS\ (NSQF\ LEVEL-5)$	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : KIRCHOFF'S LAWS AND WHEATSTONE BRIDGE	_3RDCLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-

	T	
KEY POINTS & DESCRIPTION	EXAMPLE /	PHOTO / VIDEO / PRESENTATION/ WALL
(AT LEAST 10 NOS PER	INDUSTRY	CHART
CLASS)	EXAMPLE	
1) Kirchoff's 1st Laws		i_1 R_1 i_2 i_3
2) Problem on Kirchoff's 1st Laws		
3) Kirchoff's 2nd Laws		pd ₂ pd ₃ pd ₄
4) Problem Kirchoff's 2nd Laws		\\SPITISERVER\electrician\COMMON\Electrician 1st sem video Kirchoff's 2nd Laws
5) Wheatstone bridge principle		$\begin{array}{c c} & & & & & \\ & & & & & \\ \hline & & & & & \\ \hline & & & &$
6) Applications Wheatstone bridge		



THE VALUES OF RESISTANCE

DURATION OF CLASS: 1HOUR 20 MINTS

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:35

NCVT MAIN TOPIC WEEK NO-6-7

MAIN TOPIC / CHAPTER: OHM'S LAW - SIMPLE	NO OF CLASS IN THIS MAIN TOPIC /
ELECTRICAL CIRCUITS AND PROBLEMS (NSQF LEVEL -5)	CHAPTER:4
SUB TOPIC : EFFECT OF VARIATION OF	
TEMPER ATURE ON RESISTANCE & MEASURING	4 TH CLASS OF THE MAIN TOPIC

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)		



10)

TRADE: ELCTRICIAN	TYPE OF CLA	SS: TH	EORY	1ST YEAR CLASS NO:36
				•
MAIN TOPIC / CHAPTER: COMM	MON ELECTRICAL		NO OF C	LASS IN THIS MAIN TOPIC /
ACCESSORIES (NSQF LEVEL – 5)			СНАРТЕ	R:4
SUB TOPIC : INTRODUCTION		_1 ST	_CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1HOUR 20 MINTS		NCVT M	AIN TOPIC WEEK NO-7-8	
LYDY BODYEG 0	EXAMPLE /	DILC		
KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	CHA		EO / PRESENTATION/ WALL
1) Introduction				
2) Electrical accessories			ITISERVE em video	R\electrician\COMMON\Electrician
3) Rating of accessories		\		
4) Construction of accessories				
5) Mounting of accessories				
6)				
7)				
7)				
8)				



TRIBE: ELECTRICITY THE OF CLASS. THEORY	TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:37
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MAIN TOPIC / CHAPTER: COMMON ELECTRICAL ACCESSORIES (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : HOLDING ACCESSORIES	_2 ND 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		KERANT
4) Developments of domestic circuits		



SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:

MAIN TOPIC / CHAPTEI	R: COMMON ELECT	RICAL	NO OF CI	LASS IN THIS MAIN TOPIC /
ACCESSORIES (NSQF LEVE	EL-5)		CHAPTE	R:4
SUB TOPIC : ALARM & SWITCHES		- DD		
			3 RD	_CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS		NCVT MA	AIN TOPIC WEEK NO-8	
KEY POINTS &	EXAMPLE /	PHOTO / VIDI	EO / PRESI	ENTATION/ WALL CHART

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS) 1) Description about alarm	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
2) Circuit diagram of alarm		51 52 R3 1.2K D1 1N4007 P2 1N4007 R1 R2 100K C1 1UF Electronics Hub. Org
3) Application of alarm		
4) Description about switches		
5) Circuit diagram of switches		
6) Application of switches		
7) Two way switch		



TRADE: ELCTRICIAN TYPE OF CLASS: THEORY 1ST YEAR CLASS NO:3	TRADE : ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:39
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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	_4 TH 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) 1)Security surveillance-	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
Description & diagram		
2) Fire alarm-Description & diagram		Brinke Detector Water Sprinkler Water Sprinkler Fire Alarm Control Panel Alarm Door Release
3) MCB-Description & diagram		Upper Terrental placement State Thermit Provides Develop Thermit Provides Develop Arc Chamber Finance Develop De
4) ELCB-Description & diagram		Load Relay



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		dil H ₂ SO ₄ (aq) CuSO ₄ (aq) AgNO ₃ (aq)
5) Basic principles of Electro-plating and Electro chemical equivalents		



TRADE: ELCTRICIAN TYPE	OF CLASS: THEORY	1ST YEAR CLASS NO:41
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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		2 ND 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		Reacts with sulfuric solid to form lead sulfate. Pb supply electrons and is left H2SO4 charges and H2O is left negative	
4) Methods of charging			
5) Methods of charging	TRICKLE, BOOSTING, PARALLEL CHARGING METHOD		
6)	METHOD		
7)			
8)			
9)			
10)			



SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:42

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

KEY POINTS &	EXAMPLE /	PHOTO / VIDEO / PRESENTATION/ WALL
DESCRIPTION (AT LEAST 10	INDUSTRY	CHART
NOS PER CLASS)	EXAMPLE	
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)		
<i>''</i>		
8)		
,		
9)		
10)		
10)		
	1	1



10)

TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY		1ST YEAR CLASS NO:	
MAIN TOPIC / CHAPTER: RECHARGEABLE DRY CELL			ASS IN THIS MAIN TOPIC /	
(NSQF LEVEL – 5)		CHAPTER	2:2	
SUB TOPIC : RECHARGEABLE	DRY CELL		1.00	
			1STCLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1HOUR	DURATION OF CLASS: 1HOUR 20 MINTS		NCVT MA	IN TOPIC WEEK NO-8-9
LATEN DODUTES O	EXAMPLE /			
KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE / INDUSTRY		OTO / VIDE ART	O / PRESENTATION/ WALL
NOS PER CLASS)	EXAMPLE	CH	AKI	
1) Introduction	L/MINI LL			
2) Description about rechargeable				\\clectrician\\COMMON\\Electrician
dry cell		1st	sem video	
3) Advantages and disadvantages		\		
4)				
,				
5)				
6)				
7)				
8)				



SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:44

MAIN TOPIC / CHAPTER: RECHARGEABLE DRY CELL	NO OF CLASS IN THIS MAIN TOPIC /
(NSQF LEVEL – 5)	CHAPTER:2
SUB TOPIC : RECHARGEABLE DRY CELL	N.D.
	2 ND CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-8-9
LELL DODIEG & DEGCEDENCY / ATLACT 10	EVANDLE / DHOTO / VIDEO /

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)		



DURATION OF CLASS: 1HOUR 20 MINTS

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:45

NCVT MAIN TOPIC WEEK NO-9-10

MAIN TOPIC / CHAPTER: INVERTER, BATTERY CHARGER,	NO OF CLASS IN THIS MAIN TOPIC /	
UPS (NSQF LEVEL – 5)	CHAPTER:	
SUB TOPIC : INVERTER,		
	1STCLASS OF THE MAIN TOPIC	

KEY POINTS &	EXAMPLE /	PHOTO / VIDEO / PRESENTATION/ WALL
DESCRIPTION (AT LEAST 10	INDUSTRY	CHART
NOS PER CLASS)	EXAMPLE	
1) Introduction		
2) Type of invertor	Cinala transistar	\\SPITISERVER\electrician\COMMON\Electrician
2) Type of inverter	Single transistor inverter, Driven	1st sem video inverter
		1st sem video inverter
	inverter, The two	
	transformer	
	inverter, Inverter	
	using SCRs	
3) Single transistor inverter-		AC 220V (Output)
Description & diagram		(Output)
		T1 - USA / pri : 110V
		T1 - USA / pri : 110V
		- CT CT
		68 ohms
		WW DC 12V (Input)
		+ MJ2955 MJ2955
4) Driven inverter- Description &		DC Link Voltage
diagram		± S5 S6 S6
		† Co∰LOAD
5) The two transformer inverter-		Battery PART UST
Description & diagram		1. R1=22k 2. R2=R3=100 OHM
2 coefficient de diagrami		R1 _Set Frequency 3. C1=22uF 4. C2=100nF 600V
		homenade-circuits.com 5. IC CD4047 homenade-circuits.com 6. Q1=Q2=IRF150
		7. D1=D2=1N4008
		Source
		gate 15
		INVERTER USING IC CD4047
6) Inverter using SCRs-		Battery Gappar 12V 0.8A Gappar 12V 0.8A
Description & diagram		1818
		RIQ DAMPS SCRI
		CI TOMP
		. 60
7)		



MAIN TOPIC / CHAPTER: INVERTER, BATTERY CHARGER, UPS (NSQF LEVEL -5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : BATTERY CHARGER	2 ND CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-9-10

KEY POINTS &	EXAMPLE /	PHOTO / VIDEO / PRESENTATION/ WALL
DESCRIPTION (AT LEAST	INDUSTRY	CHART
10 NOS PER CLASS)	EXAMPLE	
1) BATTERY CHARGER		
-,		
2) Battery charger		
, ,		
3) Charging method	Constant current	\\SPITISERVER\electrician\COMMON\Electrician 1st
	method,	sem video Charging method
	constant	
	potential method,	
	rectifier method.	
4) Constant current		Gas Heat Wire
method-Circuit diagram and		Flow Pipe
description.		n y
		The state of the s
		Rheostat Battery Ground Globe
5) Constant potential method-		
Circuit diagram and		
description.		20Ω
		$(+)$ 140V $6\Omega \gtrsim 5\Omega (\uparrow)$ 18A
		() 140 V () 10A
6) Dootifier mathed Circuit		
6) Rectifier method-Circuit		
diagram and description		D_4 D_1
		+V
		D_2 D_3 D_5
		D ₂ DC S Load
7)		UV



TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR. CLASS NO:47
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MAIN TOPIC / CHAPTER: INVERTER, BATTERY CHARGER, UPS (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4	
SUB TOPIC : UPS	_3rdCLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-11	

KEY POINTS &	EXAMPLE /	PHOTO / VIDEO / PRESENTATION/ WALL
DESCRIPTION (AT LEAST 10	INDUSTRY	CHART
NOS PER CLASS)	EXAMPLE	
1) Introduction		
2) Classification of UPS		\\SPITISERVER\electrician\COMMON\Electrician
		1st sem video ups
3) Block diagram of OFF line		NORAML OPERATION
UPS		LOAD
		RECIFIER INVERTER
		DATED
		BATTERY AND
		CHARGER
4) Description of block diagram OFF		
line UPS		
5) Block diagram of ON line		On Line Double Conversion UPS
UPS		On Line Double Conversion of C
		Charger/Rectifier Inverter
		Utility AC DC Load
		DC AC
		Battery
		di galanta
		Auto Bypass
6) Description of block diagram		
ON line UPS		
7)		
0)		
8)		
0)		
9)		
	l	



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	4 th 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	EXAMILE	\\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)		



TRADE : ELCTRICIAN	TYPE OF CLA	SS: TH	IEORY	1ST YEAR CLASS NO:49		
MAIN TOPIC / CHAPTER: ALLIED TRADES (NSQF LEVEL – 5)			NO OF CLASS II CHAPTER:6	N THIS MAIN TOPIC /		
SUB TOPIC : ALLIED TRADES			1 st CLAS	S OF THE MAIN TOPIC		
DURATION OF CLASS: 1HOUR 2	20 MINTS		NCVT MAIN TOPIC WEEK NO-11-12			
		1				
KEY POINTS & DESCRIPTION (A NOS PER CLASS)	AT LEAST 10		AMPLE / USTRY EXAMPL	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)						



TRADE : ELCTRICIAN	TYPE OF CLA	SS: TH	HEORY	1S	T YEAR CLASS NO:50	
				•		
MAIN TOPIC / CHAPTER:			NO OF CLASS IN THIS MAIN TOPIC /			
ALLIED TRADES (NSQF LEVEL – 5)			CHAPTER:			
SUB TOPIC : ALLIED TRADES						
			2 nd CLA	ASS (OF THE MAIN TOPIC	
DURATION OF CLASS: 1HOUR 2	20 MINTS		NCVT MAIN T	OPIC	C WEEK NO-11-12	
KEY POINTS & DESCRIPTION (AT LEAST 10	EXA	AMPLE /		PHOTO / VIDEO /	
NOS PER CLASS)		IND	USTRY EXAMP	LE	PRESENTATION/	
Description of hammers					WALL CHART	
1) Description of numbers						
2) Description of shipple						
2) Description of chisels						
3) Hacksaw frames & blades-their sp	pecification &					
grades						
4)						
5)						
6)						
7)						
8)						
9)						
10)						



SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:51

MAIN TOPIC / CHAPTER:	NO OF CLASS IN THIS MAIN TOPIC /				
ALLIED TRADES (NSQF LEVEL – 5)	CHAPTER:6				
SUB TOPIC : ALLIED TRADES					
	_3 rd CLASS OF THE MAIN TOPIC				
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-11-12				
KEY POINTS & EXAMPLE / PHOTO / VID	DEO / PRESENTATION/ WALL CHART				

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Description of steel rule		11 1 1 1 1 1 1 1 1 1 1 1 W W W W
2) Care & maintenance of steel rule		
3) Description of try square		Frank of Carlor Stand
4) Care & maintenance of try square		
5) Description of files.	Single cut, Double cut, Curved cut.	Single-Cut Double-Cut Curved Tooth Rasp
6) Care & maintenance of files		
7)		
8)		
9)		



SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:52

MAIN TOPIC / CHAPTER:	NO OF CLASS IN THIS MAIN TOPIC /
ALLIED TRADES (NSQF LEVEL – 5)	CHAPTER:6
SUB TOPIC : ALLIED TRADES	
	_4 th CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-11-12

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	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		\
A) Had of Firms in internal in our		
4) Use of Firm joint calipers		
5) Use of Spring joint calipers		
6)		
7)		
7)		
8)		
9)		
10)		



TRADE : ELCTRICIAN	TYPE OF CLA	SS: TH	IEORY	1ST YEAR CLASS NO:53		
MAIN TOPIC / CHAPTER: ALLIED TRADES (NSQF LEVEL – 5)			NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:5 th			
SUB TOPIC : ALLIED TRADES						
				OF THE MAIN TOPIC		
DURATION OF CLASS: 1HOUR 2	0 MINTS		NCVT MAIN TOPIC WEEK NO-11-12			
WEY DOINTER & DESCRIPTION /	AT I E A CT 10	EXA	MDIE /	DHOTO / VIDEO /		
KEY POINTS & DESCRIPTION (A NOS PER CLASS)	AT LEAST 10	EXAMPLE / INDUSTRY EXAMPLE		PHOTO / VIDEO / PRESENTATION/ WALL CHART		
1) ALLIED TRADES						
2) Description of saws planes						
2) Description of Saws planes						
3) Description of chisels				\		
4) Description of mallet						
5) Description of claw						
6)						
7)						
8)						
9)						
10)						
10)						



SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:54

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

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



6)

7)

8)

9)

10)

TRADE: ELCTRICIAN	TYPE OF CLASS	5: TH	EORY	18	T YEAR CLASS NO:55	
MAIN TOPIC / CHAPTER:			NO OF CLASS I	ΝT	HIS MAIN TOPIC /	
MAGNETISM (NSQF LEVEL – 5)			CHAPTER:7			
SUB TOPIC : MAGNETISM						
			1 st CLASS OF THE MAIN TOPIC			
DURATION OF CLASS: 1HOUR 20 MINTS			NCVT MAIN TOPIC WEEK NO-11-12			
KEY POINTS & DESCRIPTION (A	AT LEAST 10	EXA	AMPLE /		PHOTO / VIDEO /	
		IND	USTRY EXAMPL	Æ	PRESENTATION/ WALL CHART	
1) Introduction					WIES CHILL	
2) Classification of magnets	2) Classification of magnets Natu		ral magnets,			
Arti		Artif	icial magnets			
3) Types of artificial magnets & desc	cription Temporary magnets,					
_			nanent magnets.			
4) Methods of magnetising						



10)

TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY		IEORY	1S'	T YEAR CLASS NO:56
	•			•	
MAIN TOPIC / CHAPTER: MAGNETISM (NSQF LEVEL – 5)		NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:7			
SUB TOPIC : MAGNETISM			2 nd CLASS OF THE MAIN TOPIC		
DURATION OF CLASS: 1HOUR 2	20 MINTS		NCVT MAIN TOPIC WEEK NO-12-13		
KEY POINTS & DESCRIPTION (A NOS PER CLASS)	AT LEAST 10		MPLE / USTRY EXAMPI	LE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Magnetic materials					
2) Properties of magnetic materials					
3) care and maintenance of magnetic	c material				
4)					
5)					
6)					
7)					
8)					



10)

TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY		IEOR I	1ST YEAR CLASS NO:5/
MAIN TOPIC / CHAPTER: MAGNETISM (NSQF LEVEL – 5)			NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:7	
SUB TOPIC : MAGNETISM			3 rd CLAS	S OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 2	0 MINTS		NCVT MAIN TOPIC WEEK NO-12-13	
		T		
KEY POINTS & DESCRIPTION (A NOS PER CLASS)	AT LEAST 10		AMPLE / USTRY EXAMPL	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Ferromagnetic materials- Descrip	tion			
2) Paramagnetic materials - Description	1			
3) Paramagnetic materials - Descript	ion			\
4) Principle of electro-magnetism				
5) Maxwell's corkscrew rule				
6)				
7)				
8)				



TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:58
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MAIN TOPIC / CHAPTER: MAGNETISM (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:7
SUB TOPIC : MAGNETISM	4 th 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) INDUSTRY EXAMPLE PHOTO / VIDEO / PRESENT WALL CHART PHOTO / VIDEO / PRESENT WALL CHART Field	TATION/
1) Fleming's left hand rules EXAMPLE Field	
1) Fleming's left hand rules	
Field	
	Trent
2) Fleming's right hand rules Field Current	
3) Magnetic field of current carrying conductors	
4)	
5)	
6)	
7)	
8)	



TRADE : ELCTRICIAN	TYPE OF CLASS: T	HEORY	1ST YEAR CLASS NO:59
MAIN TOPIC / CHAPTER: MAGNETISM (NSQF LEVEL – 5)		NO OF CLA	ASS IN THIS MAIN TOPIC /
SUB TOPIC: MAGNETISM:		_5 th (CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 2	20 MINTS	NCVT MA	IN TOPIC WEEK NO-12-13
KEY POINTS & DESCRIPTION (A LEAST 10 NOS PER CLASS)	AT EXAMPLE / INDUSTRY EXAMPLE		D / VIDEO / PRESENTATION/ CHART
1) Loop and solenoid			
2) MMF			
3) Flux density		\	
4) Reluctance			
5) B.H. Curve		-H——Magnetizin in opposite -Bm Sacuration in opposite	direction -Br Flux density
6) Hysteresis			
7) Eddy current			
8)			
9)			
10)			



TRADE: ELCTRICIAN	TYPE	TYPE OF CLASS: THEORY		•	1ST YEAR CLASS NO:60
MAIN TOPIC / CHAPTER:			NOO	DECLASS I	N THIS MAIN TOPIC /
MAGNETISM (NSQF LEVEL – 5)				PTER:7	N THIS MAIN TOLIC
Wheneriam (1.6 Q1 LE v LE 3)				i i Litt.	
SUB TOPIC : MAGNETISM				d	
					S OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 2	0 MIN	ΓS	NCV'	T MAIN TO	OPIC WEEK NO-12- 13
VEV DOINTS & DESCRIPTION (\Т	EXAMPLE /		DHOTO /	VIDEO / PRESENTATION/
KEY POINTS & DESCRIPTION (A LEAST 10 NOS PER CLASS)	11	INDUSTRY		WALL CH	
ELIST TO TOO TER CLISS)		EXAMPLE		WILL	
1) Principle of electromagnetic induc	ction				
a) -					
2) Faraday's Law					
3) Lenz's Law				\	
,					
				1	Electric current T
				1/ ///	Execute current 1
				(3)	B Magnetic field
				3	
				(4	
					\mathbb{N}
4)					Ø
4)					
5)					
6)					
7)					
0)					
8)					



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	_7 th CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-13-14

KEY POINTS & DESCRIPTION	EXAMPLE /	PHOTO / VIDEO / PRESENTATION/ WALL
(AT LEAST 10 NOS PER	INDUSTRY	CHART
CLASS)	EXAMPLE	
1) Electrostatics		
,		
2) Electrostatics		
2) Electrostaties		
3) Functions of capacitor		450 July 450
4) Functions of capacitor		
5)		
6)		
7)		
<i>' </i>		
8)		
-/		
9)		



TRADE: ELCTRICIAN T	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:62
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MAIN TOPIC / CHAPTER: ALTERNATING CURRENT (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:6
SUB TOPIC : ALTERNATING CURRENT	1stCLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-13-14

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



9)

10)

TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY		HEORY	1S	Γ YEAR CLASS NO:63
MAIN TOPIC / CHAPTER: Instantaneous value (NSQF LEVEI	L-5)		NO OF CLASS I CHAPTER:6	[N T]	HIS MAIN TOPIC /
SUB TOPIC : Instantaneous value			2 nd CLA	SS O	F THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 2	20 MINTS		NCVT MAIN TOPIC WEEK NO-12-13		
WEN DODIEG & DEGCDIPTION	ATTICA CT 10	DX	AMDLE /		DUOTO / VIDEO /
KEY POINTS & DESCRIPTION (A NOS PER CLASS)	AT LEAST 10		AMPLE / USTRY EXAMPL	Æ	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) R.M.S. Value					
2) Average value					
3) Peak factor					1
4) Form factor					
5) Generation of sine wave					
6)					
7)					
8)					



TRADE: ELCTRICIAN	TYPE OF CLAS	S: TH	EORY	1 S 7	Γ YEAR CLASS NO:64
				·	
MAIN TOPIC / CHAPTER: ALTERNATING CURRENT (NSQF LEVEL – 5)			NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:6		
SUB TOPIC : ALTERNATING CUI	RRENT		3 rd CLAS	SS O	F THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 2	0 MINTS		NCVT MAIN TOPIC WEEK NO-13-14		
KEY POINTS & DESCRIPTION (A NOS PER CLASS)	AT LEAST 10		MPLE / USTRY EXAMPL	E	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Definition of phase					
2) Definition of phase difference					
3) Definition of inductive reactance					1
4) Definition of capacitive reactance					
5) Definition of impedance					
6) Definition of power factor					
7)					
8)					
9)					
10)					



TRADE: ELCTRICIAN

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

1ST YEAR CLASS NO:65

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

TYPE OF CLASS: THEORY

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Active power	EXAMILE	
2) Active power		True Power P = VIcosep Kilo watt(kW) A Reactive Power Q = VIsin Volt Ampere Reactive (VAR) B
3) Simple problems on A.C. Circuits, single Phase and three-phase system etc.		Constet Gobs
4)		
5)		
6)		
7)		
8)		
9)		
10)		



TRADE: ELCTRICIAN

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

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	_5 th CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 20 MINTS	NCVT MAIN TOPIC WEEK NO-13-14

TYPE OF CLASS: THEORY

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



6)

7)

8)

V. MALLEN DELL	MASTER TE	ACHING PLAN	N
TRADE : ELCTRICIAN	TYPE OF CLASS:	THEORY	1ST YEAR CLASS NO:67
MAIN TOPIC / CHAPTER:			SS IN THIS MAIN TOPIC /
ALTERNATING CURRENT (NSQF LEVI	EL – 5)	CHAPTER:6	5
SUB TOPIC : ALTERNATING CUI	RRENT	6 th C	LASS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 2	0 MINTS		N TOPIC WEEK NO-13-14
KEY POINTS & DESCRIPTION (EXAMPLE /	DHOTO / VII	DEO / PRESENTATION/
AT LEAST 10 NOS PER CLASS)	INDUSTRY EXAMPLE	WALL CHA	
1) Concept three-phase			
2) Concept three-phase			
3) Line and phase voltage		Phase voltage Newtral V2 W1	R √ Line voltage (Line to line volt) V1
4) Current and power in a 3 phase circuits with balanced and unbalanced load		Y connection n b	z ₁ z ₂
5)			



TRADE: ELCTRICIAN TYPE	OF CLASS: THEORY	1ST YEAR CLASS NO:68
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MAIN TOPIC / CHAPTER: EARTHING (NSQF LEVEL – 5)		NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : EARTHING		1 st 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) 1) Introduction	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
2) Principle of earthing		One phase secondary distribution of transformer Live wire Fault Current Passes through the human body Neutral wire
3) Explain the reasons for system and equipment earthin 4) State the terminal losses related to		Electrical System Without Earthing OmatGiele
5) Different methods of earthing	Pipe earthing, Plate earthing etc	
6)		
7)		
8)		
9)		
10)		



TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY		IEORY	1ST YEAR CLASS NO:69	
	1				
MAIN TOPIC / CHAPTER:	MAIN TOPIC / CHAPTER:			S IN THIS MAIN TOPIC /	
EARTHING (NSQF LEVEL – 5)			CHAPTER:4	CHAPTER:4	
SUB TOPIC : PIPE EARTHING					
			2 nd CLASS OF THE MAIN TOPIC		
DURATION OF CLASS: 1HOUR 2	20 MINTS		NCVT MAIN	NCVT MAIN TOPIC WEEK NO-13-14	
		T	/		
KEY POINTS & DESCRIPTION (A 10 NOS PER CLASS)	AT LEAST	EXAMP: INDUST		PHOTO / VIDEO / PRESENTATION/ WALL	
10 NOS LECCLASS)		EXAMP		CHART	
1) Pipe earthing - description with d	rawing			South Spen Cover 1 Hose Person 2255 m 15 cm 15	
2)					
3)					
4)					
5)					
6)					
7)					



TRADE: ELCTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:70
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MAIN TOPIC / CHAPTER: EARTHING (NSQF LEVEL – 5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:4
SUB TOPIC : PLATE EARTHING	3 rd 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	PHOTO / VIDEO / PRESENTATION/ WALL
Plate earthing - description with drawing	EXAMPLE	CHART Law 191. but any 191. bu
2) Methods of improving earth electrode resistnce		
3)		\
4)		
5)		
6)		
7)		
8)		
9)		



TRADE: ELCTRICIAN	TYPE OF CLASS: TH	HEORY	1ST YEAR CLASS NO:71
MAIN TOPIC / CHAPTER:		NO OF CLASS	IN THIS MAIN TOPIC /
EARTHING (NSQF LEVEL – 5)		CHAPTER:4	
SUB TOPIC : EARTH RESISTANC	E TECTED		
SUD TUPIC . EARTH RESISTANC	E IESIEK	4 th CLA	SS OF THE MAIN TOPIC
DURATION OF CLASS: 1HOUR 2	0 MINTS	NCVT MAIN T	OPIC WEEK NO-14-15
KEY POINTS & DESCRIPTION (A	AT EXAMPLE /	DHOTO / I	VIDEO / PRESENTATION/
LEAST 10 NOS PER CLASS)	INDUSTRY EXAMPLE	WALL CH	
1) Earth resistance tester-Introduction	n e e e e e e e e e e e e e e e e e e e	1900 C	CHARGE CHARGE TESTER
2) Earth resistance tester-Construction			
3) Method of measuring earth ressista	ance	\	
4) Earth Leakage Circuit Breaker(ELCB)			Y B N Supply will be cut off by throwing the Plunger P. LOAD ELCB Ceil
5)			_
6)			
7)			



TRADE: Electrician TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:72
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MAIN TOPIC / CHAPTER:BASIC ELECTRONICS (NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC :OSCILLOSCOPE	1 ST 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)		



TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY 1S7		ST Y	EAR CLASS NO:73	
MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5) NO OF CLASS I CHAPTER:16		IN TI	IN THIS MAIN TOPIC /		
SUB TOPIC :OSCILLOSCO	PE		2 ND CLASS OF	THE	MAIN TOPIC
DURATION OF CLASS:1 H	HOUR 20 MINTS		NCVT WEEK N	NO.1-	2
KEY POINTS & DESCRIPTION NOS PER CLASS)	ΓΙΟΝ (AT LEAST 10	EXAMPLE / INDUSTRY EXAMPLE			PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) DEFLECTING PLATES					
2) DEFLECTING PLATES	USES				
3) FLUORESCENT SCREE	N		LECTRON GUN		Fig.2
			EFLECTING TES		
		3)FI	LUORESCENT		
		SCR	EEN		
4) FLUORESCENT SCREE	N USES				
5) PRECUTION OF OSCIL	LOSCOPE				
6)					
7) 8)					
9)					
10)					
11)					
12)					



TRADE: ELECTRICIAN	YPE OF CLASS: THEORY	1ST YEAR CLASS NO:74
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MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC :OSCILLOSCOPE	3 RD CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.1-2

KEY POINTS & DESCRIPTION (AT LEAST	EXAMPLE / INDUSTRY	PHOTO / VIDEO /
10 NOS PER CLASS)	EXAMPLE	PRESENTATION/ WALL CHART
1)WORKING PRINCIPLE OF		WALL CHART
OSCILLOSCOPE		
2) CICNAL CENEDATOR		
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)		
10)		
12)		



TRADE: ELECTRICIAN TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:75
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MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC : TRANSISTORS	4 TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.1-2

EXAMPLE /	PHOTO / VIDEO /
INDUSTRY EXAMPLE	PRESENTATION/ WALL CHART
PNP, NPN TRANSISTORS	
	Fig.3
	INDUSTRY EXAMPLE PNP, NPN



TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:76
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MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC : TRANSISTORS	5 TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.1-2

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
Tios Tell celliss)		WALL CHART
1) SPECIFICATION TRANSISTORS	PNP, NPN	
1) 22 2011 2011 1011 111 11 12 10110	TRANSISTORS	
2) RATING OF TRANSISTORS		
,		
3) EXPLANATION OF TRANSISTORS		
ÁMPLIFIERS		
4) TRANSISTORS ACTION		
5) POWER GAIN	OUTPUT CURRENT X	
	INPUT	
	VOLTAGE/INPUT	
	CURRENT X INPUT	
	VOLTAGE	
6)		
7)		
8)		
9)		
·		
10)		
11)		
11)		
12)		
12)		



TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:77
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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	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
TVOSTER CERSS)		WALL CHART
1) SPECIFICATION AMPLIFIERS	DNID NIDNI	WALL CHART
1) SPECIFICATION AMPLIFIERS	PNP, NPN TRANSISTORS	
	TRANSISTORS	
A) DATING OF AMPLIETEDS		
2) RATING OF AMPLIFIERS		
2) EVELANATION OF AMELIEEDS		F: 4
3) EXPLANATION OF AMPLIFIERS		Fig.4
A A A COLUMNIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DE LA COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COM		
4) AMPLIFIERS ACTION		
5) AMPLIFIERS POWER GAIN	OUTPUT CURRENT X	
	INPUT	
	VOLTAGE/INPUT	
	CURRENT X INPUT	
	VOLTAGE	
6)		
7)		
8)		
9)		
,		
10)		
11)		
12)		



TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:78
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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	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	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)		
10)		
11)		
11)		
12)		
12)		



TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:79
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MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC : TRANSISTORS AND AMPLIFIERS	8 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
		THE CHINE
1) CLASS TEST OF TRANSISTOR AND AMPLIFIER		
AWI LIPIER		
2)		
2)		
3)		
4)		
•/		
5)		
-,		
6)		
7)		
8)		
9)		
10)		
10)		
11)		
11)		
12)		



NO:80
ľ

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

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
		WALL CHART
1)EXPLANATION OF OSICILATION		
1)EM EMMINION OF OBJETEMENTORY		
2) WORKING PRINCIPLE		
3) TYPE OF STAGE		
3) THE OF STAGE		
4) EXPLANATION OF STAGE		
,		
5) THE DEG OF STATE OF		
5) TYPES OF STAGE		
6)MULTI VIBRATOR		
7)		
8)		
0)		
9)		
10)		
10)		
11)		
12)		
12)		



TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:81
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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	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	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)		



TRADE: **ELECTRICIAN**

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

MAIN TOPIC / CHAPTER:BASIC		NO OF CLASS IN T	HIS MAIN TOPIC /
ELECTRONICS(NSQF LEVEL-5)		CHAPTER:16	
, -			
SUB TOPIC: TYPES OF ELECTRONICS		11 TH CLASS OF TH	IE MAIN TOPIC
COMPONENTS			
DURATION OF CLASS:1 HOUR 20 MINTS		NCVT WEEK NO.3	-4
VEV DOINTS & DESCRIPTION (AT LEAST 10	ESZA	MDIE /	DUOTO / VIDEO /

TYPE OF CLASS: THEORY

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

SIGNATURE OF TRADE INSTRUCTORS

1ST YEAR CLASS NO:82



TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:83
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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	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/ WALL CHART
1) INTRODUCTION OF SCR		WALL CHART
2) SPECIFICATION OF SCR		
3) WORKING PRINCIOLE OF SCR		Fig.8
4) INTRODUCTION OF DIAC		
5) SPECIFICATION OF \DIAC		
		77. 0
6) WORKING PRINCIOLE OF DIAC		Fig.9
7)		
8)		
9)		
10)		
11)		
12)		



TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:84
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MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC : TYPES OF ELECTRONICS COMPONENT	13 TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.3-4

EXAMPLE /	PHOTO / VIDEO /
	PRESENTATION/
INDUSTRI EXAMILE	WALL CHART
	WILL CITACI
	Fig.10
	11g.10
1	
	Fig.11
	1 18.11
	Fig.12
	115.12
	Fig.13
	INDUSTRY EXAMPLE



TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:85
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MAIN TOPIC / CHAPTER:BASIC ELECTRONICS(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:16
SUB TOPIC : DIGITAL ELECTRONICS	14 TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO.3-4

_	1	-
KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
		WALL CHART
1)INTRODUCTION		
2) CLASIFICATION OF DIGITAL ELECTRONIC	BINARY	
	NUMBER,LOGIC	
	GATE,	
3) BINARY SYSTEM	0.112,	
4) CALCULATION OF BINARY SYSTEM		
) CHECCENTION OF BINNING STRIEN		
5) PROBLEMS OF BINARY SYSTEM		
3) TROBLEMS OF BRAIKT STSTEM		
6)		
7)		
<u>'</u>		
8)		
9)		
10)		
10)		
11)		
11)		
12)		
12)		



TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:86
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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	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	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)		



CLASS NO:87
C.

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
		WALLCHART
1)) CLASS TEST OF TRANSISTOR AND DIGITAL ELECTRONICS		
2)		
2)		
3)		
4)		
4)		
5 \		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		



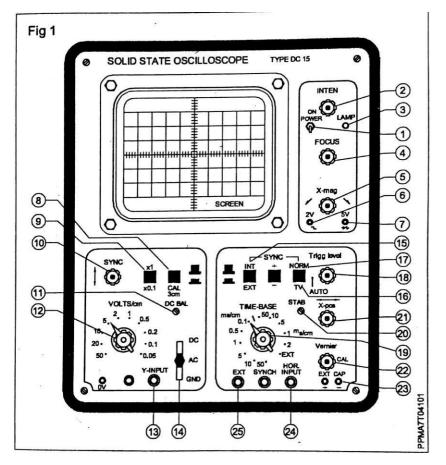


Fig.1

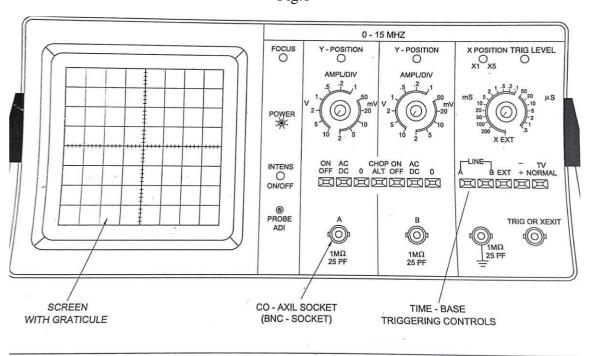


Fig.2



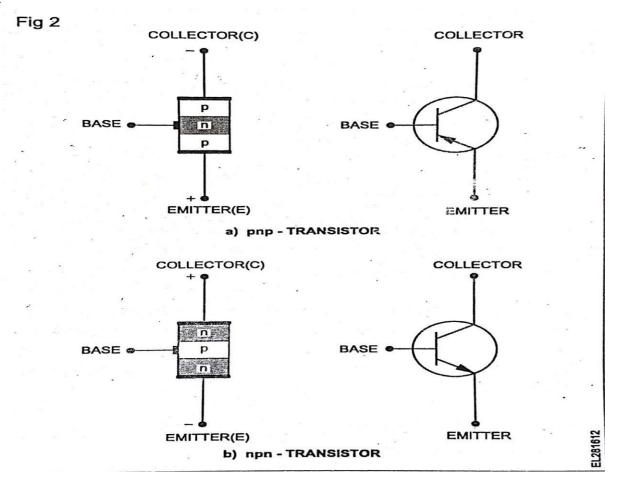


Fig.3

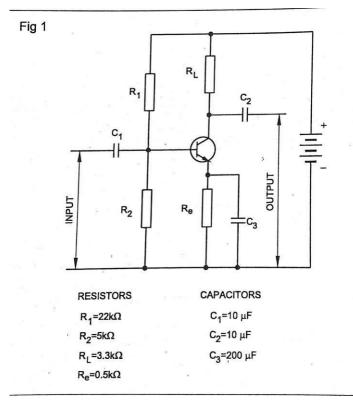


Fig.4



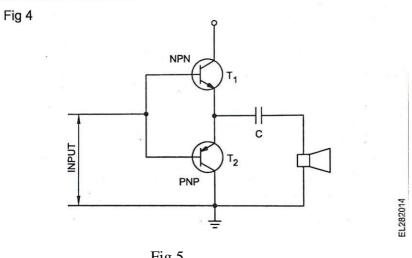


Fig.5

Fig 2

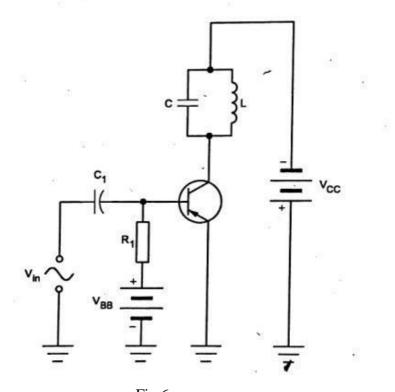
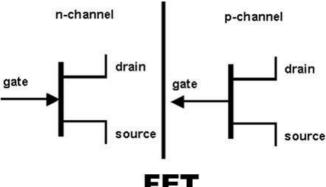


Fig.6



FET

Field-Effect Transistor



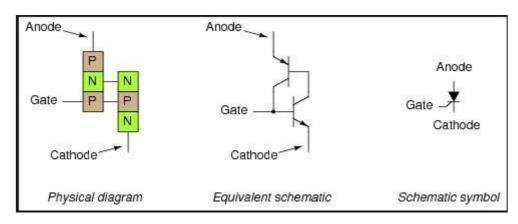


Fig.8

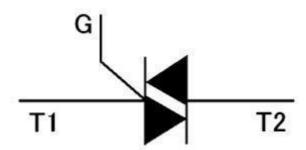


Fig.9

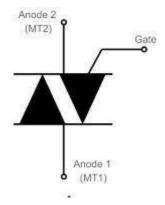


Fig.10

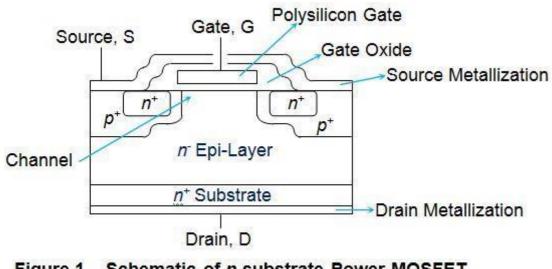


Figure 1 Schematic of n-substrate Power MOSFET



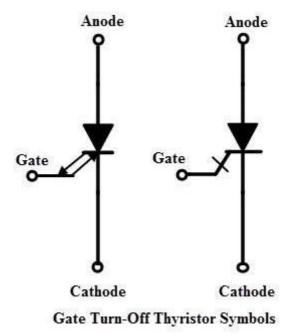


Fig.12

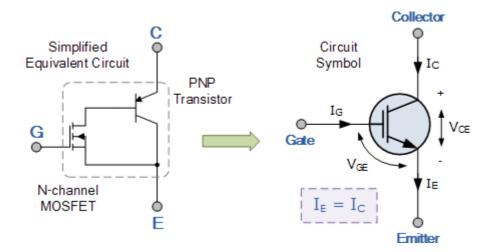


Fig.13

Logic Gates

N	TO	AND		ı	NAN	D		OR			NOI	3		XOI	₹	λ	NO	R							
	Ā		AB	\overline{AB}		\overline{B} $A+B$				$\overline{A + I}$	3		$A \oplus I$	3	$\overline{A \oplus B}$										
<u>A</u>	<u>A</u> x <u>A</u> x		x -				A X)o—			<u>></u>			> -	12 -		<u>></u>			> -
A	X	В	A	X	В	A	X	В	A	X	В	A	X	В	A	X	В	A	X						
1	0	0	1	0	0	1	1	0	1	1	0	1	0	0	1	1	0	1	(
		1	0	0	1	0	0	1	0	1	1 1	0	0	1	0	1 0	1	0	1						
	A 0	A X 0 1	$ \begin{array}{c cccc} \hline A & X & B \\ \hline 0 & 1 & 0 \end{array} $	A X B A O O O O O O O O O O O O O O O O O O	A AB A B X B A X 0 1 0 0 1 0 0 1 0 0 0 0 1 0 0 0	A AB A X B X B A X B A X B 0 1 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0	A AB AB AB AB AB AB AB AB X BB AX BA 0 1 0 0 1 0 0 1 0 1 0 0 1 0 1 0 0 1 0	A AB AB AB BB AB BB	A AB AB A B X B A X B A X 0 1 0 0 0 0 1 0 1 0 0 1 0 0 1 1 0 1 0 0 1 0 1 0 1 1	A AB AB AB A+B A B X B A X B A X B A X B A X B A X B A X B A X B A X B A X B A X B A X B A X D 0 <td< td=""><td>A AB AB AB A+B A B A X B A X O 1 O</td><td>A AB AB AB A+B A B A X B A X B A X <td< td=""><td>A AB AB AB A+B A+B A B X B A X B A X <</td><td>A AB AB AB A+B A B X BAX X BAX BAX<</td><td>A AB AB AB A+B A</td><td>A AB AB AB A+B A+B A+B A B X B A X B A X <td< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>A AB AB AB A+B A+B</td></td<></td></td<></td></td<>	A AB AB AB A+B A B A X B A X O 1 O	A AB AB AB A+B A B A X B A X B A X <td< td=""><td>A AB AB AB A+B A+B A B X B A X B A X <</td><td>A AB AB AB A+B A B X BAX X BAX BAX<</td><td>A AB AB AB A+B A</td><td>A AB AB AB A+B A+B A+B A B X B A X B A X <td< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>A AB AB AB A+B A+B</td></td<></td></td<>	A AB AB AB A+B A+B A B X B A X B A X <	A AB AB AB A+B A B X BAX X BAX BAX<	A AB AB AB A+B A	A AB AB AB A+B A+B A+B A B X B A X B A X <td< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>A AB AB AB A+B A+B</td></td<>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	A AB AB AB A+B A+B						

Fig.14



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	_1ST CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:5-6

	T	
KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	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		
, r r ,		
5) B. Permanent wiring		
3) B. I elinanent witing		
6) Definition of temporary wiring		
o) 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)		
1-7		



TRADE: Electrician	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:89
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MAIN TOPIC / CHAPTER: Electric wirings (NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER: \11
SUB TOPIC : Permanent wiring	2 ND CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:5-6

WENT DODIEG & DEGED IDEION (APP 2 T 4 CT 4 C	TEXAL EDITE /	Divorce (Linder
KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
		WALL CHART
1) C.T.S/ T.R.S wiring	Residential, hospital,	
,	office.	
	office.	
2) Lead sheathed wiring	Residential, hospital,	
2) Zoda shoumed witing	office.	
2) G 11:	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)		
7)		
8)		
9)		
10)		
11)		
11)		



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

	T === :	
KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
		WALL CHART
1) Temporary wiring.	Use for marriages fairs	
A. Flexible-wire wiring Adv. & Dis. Adv	etc.	
And Precaution	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)		
7)		
0)		
8)		
9)		
[2)		
10)		
10)		
11)		
1/		
12)		
,		
		-



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	4TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:5-6	

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	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)		



TRADE: ELECTRICIAN TYPE OF CLASS: THEORY		IST YEAR CLASS NO:92			
			<u> </u>		
MAIN TOPIC / CHAPTER: ELECTRICAL			NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11		
WIRING(NSQF LEVEL-5)			CHAPTER:11		
SUB TOPIC : MEGGER			5TH CLASS OF THE MAIN TOPIC		
DURATION OF CLASS: 1 HOUR 20 MINTS			NCVT WEEK NO:5-6		
KEN DUINLE & DESCOID	TION (AT LEAST 10	EVA	MDI E /	PHOTO / VIDEO /	
KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)		EXAMPLE / INDUSTRY EXAMPLE		PRESENTATION/ WALL CHART	
1) Introduction of Megger.					
2) Construction of Megg	ger.				
3)Working principle of Meg	ger.				
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)					



TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:93
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MAIN TOPIC / CHAPTER:ELECTRICAL WIRING(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11	
SUB TOPIC : Material required for wiring	6TH CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:5-6	

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/ WALL CHART
1) Material required for wiring		Fig.18
2) Electrical accessories	Switch, holder	Fig.19
3) Wires	VIR and PVC	Fig.20
3) Wiles	VIX and I VC	1 1g.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)		



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	7TH CLASS OF THE MAIN TOPIC		
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:5-6		

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
TOO TER CERIOS)		WALL CHART
1) To prepare wiring diagram	Wiring lay-out	WILL CIT IN
1) To propure wring diagram	willing lay out	
2) To Estimate	Costing of materials or	
	BOM	
3) Marking	Walls marking	
3) Warking	Horizontal & Vertical	
	Tionzontal & Voltical	
4) To fix the Wooden Gutties		
5) METHODS OF WIRING		
0) 1.2222020 01 1122110		
		Fi 20
6) A. Looping Method		Fig.20
Adv. & Dis. Adv		
7) B. Connector Method		
Adv. & Dis. Adv		
8) C. Tree Method		
Adv. & Dis. Adv		
9)		
10)		
10)		
11)		
12)		
12)		



TRADE: Electrician	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO: 95
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MAIN TOPIC / CHAPTER: Electric wirings (NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11
SUB TOPIC : Testing of Wiring	8TH 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
Insulation Resistance Test Between the Conductor & Earth	By Using of Megger	
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		



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 TO CHAPTER:11		S IN THIS MAIN TOPIC /	
SUB TOPIC :LIGHTING C	IRCUITS	9_TH C	CLASS OF THE MAIN
DURATION OF CLASS: 1	HOUR 20 MINTS	NCVT WEEK	NO:5-6

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/ WALL CHART
1) LIGHITING CIRCUIT		
Draw Schematic Diagrams for typical wiring Circuit.	Nimi- pg-87	
3) A. Bedroom Lighting		
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)		



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	ON OF WIRINGS		10TH	CLAS	SS OF THE MAIN
DURATION OF CLASS: 1	HOUR 20 MINTS		NCVT WEEK	NO:5	-6
KEY POINTS & DESCRIP NOS PER CLASS)	TION (AT LEAST 10		INDUSTRY EXAMPLE PRESENTATION		PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Locatian of lamp po	oints				
2) Drawing room, kitch room, hall, gallery,					
	50010 1 0 0222 0000				
3) SHORT QUESTION DISCUSSION AND					
4) Electrical wiring					
5) Type of wiring					
6) Testing					
7)					
8)					
9)					
10)					
11)					
12)					



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	11 TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO:3-4

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



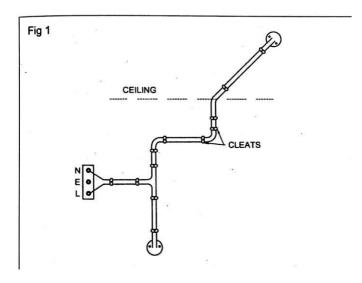


Fig.`15

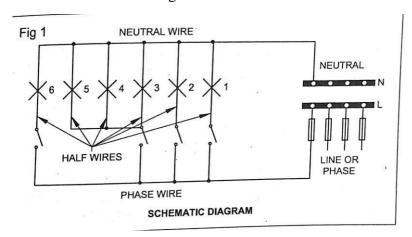


Fig.16

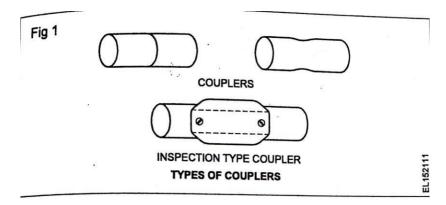


Fig.17

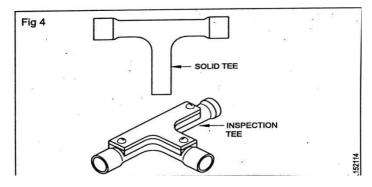


Fig.18



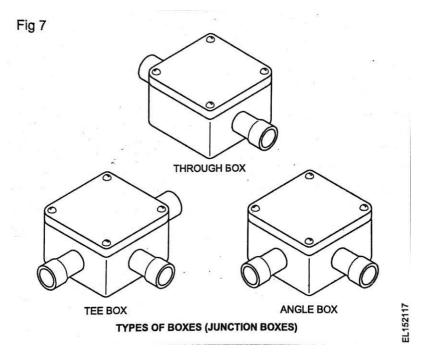


Fig.19

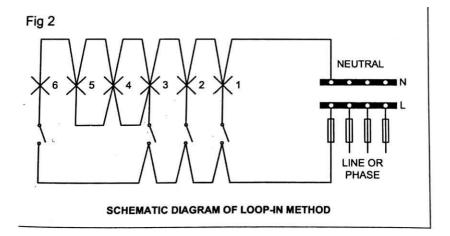


Fig.20



TRADE: ELECTRICIAN TYPE OF C	CLASS: THEORY	1ST YEAR CLASS NO:99
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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	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
,		WALL CHART
1) INTRODUCTION		
2) TYPES OF FUSE	OPEN TYPE,SEMI	
	ENCLOSE, TOTALLY	
A) APPLICATION	ENCLOSE	
3) OPEN TYPE	OVER HEAD LINES	
	ELICE	
	FUSE	
4) SEMI ENCLOSE	FUSE CUT OUT, KIT	
+) SEIVII EI VELOSE	KAT FUSE	
5) SEMI ENCLOSE TYPE	CARTIDGE, H.R.C	
6)H.R.C FUSE SPECFIACTION		
7)		
8)		
9)		
10)		
10)		
11)		
, '		
12)		



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

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



TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:101
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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	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
		WALL CHART
1)) INTRODUCTION		
,,		
2) TYPES OF M.C.B	AS PER CURRENT	Fig.21
2) THES OF W.C.B	RATINGS	11g.21
	KATINGS	
A) WORKING PRINCIPLE		F: 22
3) WORKING PRINCIPLE		Fig.22
4) PARTS OF M.C.B		Fig.23
5) REPARING		
,		
6)		
7)		
8)		
(6)		
9)		
10)		
11)	+	+
11)		
10)		
12)		



TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:102
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MAIN TOPIC / CHAPTER: SAFTY DEVICE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:5
SUB TOPIC : E.L.C.B	4 TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTS	NCVT WEEK NO:7

	T	1
KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	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)		
/		
	J	



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	5 TH 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)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		



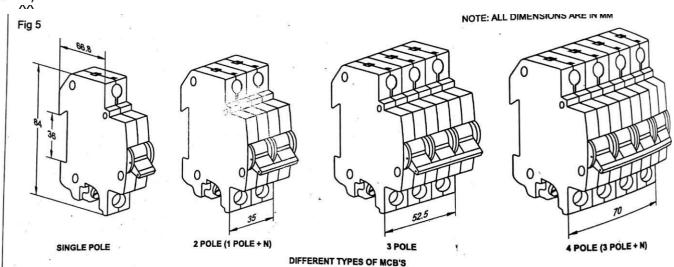


Fig.21

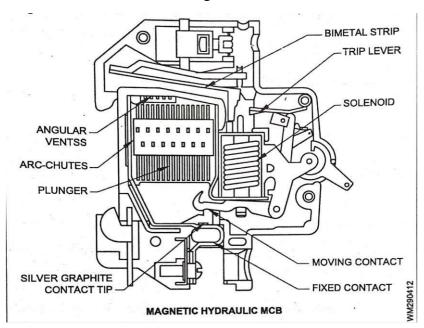


Fig.22

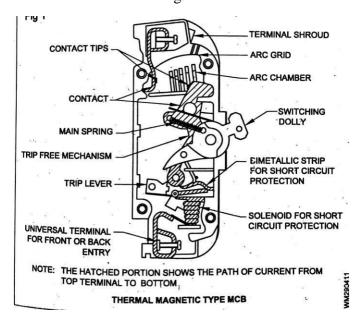


Fig.23



TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:104
-	TYPE OF CLASS: THEORY

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

VEN DOINTE (DESCRIPTION / AT LEAST 10	EVANDLE /	DHOTO / MDEO /
KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/
1) Introduction of DC GENERATOR		WALL CHART
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)		



TRADE: Electrician TYPE OF CLASS: THEORY 1ST YEAR CLASS NO:	105
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MAIN TOPIC / CHAPTER: DC MACHINE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : DC GENERATOR	2 ND CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:8-9

VEV DODVEG A DEGCEDENCY (AFT LEAGE 10	EXAMPLE /	DILOTO / LIDEO /
KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	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		
7) 1) Commutator		
8) G) Brushes		
8) G) Brusiles		
0) II) D		
9) H) Bearing		
10) I) Air filted for fan		
11) J) Shaft		
12)		



TRADE: : Electrician	TYPE OF CLASS: THE	ORY	IST	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			3 RD CLAS	S OF THE MAIN TOPIC
DURATION OF CLASS: 1	DURATION OF CLASS: 1 HOUR 20 MINTS		NCVT WEEK NO:	8-9
KEY POINTS & DESCRIP' NOS PER CLASS)	ΓΙΟΝ (AT LEAST 10		AMPLE / USTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1) Type of DC GENERA	ATOR			
2) Separately excited				
3) Self excited				
4) Permanent Magnet				
5) Shunt				
6) Series				
7) Compound				
8) Short shunt compoun	d			
9) Long shunt compound	d			
10) Cumulative Compou	nd			
11) Differential Compou	nd			
12) Terminal Marking				



TRADE: : Electrician

DURATION OF CLASS: 1 HOUR 20 MINTS

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

SIGNATURE OF TRADE INSTRUCTORS

NCVT WEEK NO:8-9

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

TYPE OF CLASS: THEORY

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)		



TRADE: : Electrician	TYPE OF CLASS: THEORY		1ST YEAR CLASS NO:108
MAIN TOPIC / CHAPTER:	DC MACHINE(NSQF	NO OF C	CLASS IN THIS MAIN TOPIC /
LEVEL-5)		CHAPTE	ER:9
SUB TOPIC: DC GENERA	TOR	5	_TH CLASS OF THE MAIN
		TOPIC	
DURATION OF CLASS: 1	HOUR 20 MINTS	NCVT W	/EEK NO:8-9
KEY POINTS & DESCRIP	ΓΙΟΝ (AT LEAST 10 EX	AMPLE /	PHOTO / VIDEO /

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/
1) Armature reaction		WALL CHART
1) Affiliature 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)		



TRADE: Electrician	TYPE OF CLASS: THEORY	1ST YEAR CLASS NO:109
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MAIN TOPIC / CHAPTER: DC MACHINE(NSQF LEVEL-5)	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC : : DC GENERATOR	6TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:10-11

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
		WALL CHART
1) Losses in dc generator		
2) Copper loss		
2) Copper loss		
3) Iron loss		
A) M. 1 ' 11		
4) Mechanical loss		
5) Stray loss		
,		
6) Constant loss		
7) Variable loss		
7) Variable 1035		
8) Total loss		
0) Efficiency of de concretor		
9) Efficiency of dc generator		
10) Overall efficiency		
11) [1.44] -1.46] -1.46]		
11) Electrical efficency		
12) Mechanical efficiency		
•		



TRADE: Electrician	TYPE OF CLASS: THEORY		1ST YEAR CLASS NO:109
MAIN TOPIC / CHAPTER: LEVEL-5)	DC MACHINE(NSQF	NO OF CLASS CHAPTER:9	S IN THIS MAIN TOPIC /
SUB TOPIC : : DC GENER	ATOR	7TH C	CLASS OF THE MAIN
DURATION OF CLASS: 1	HOUR 20 MINTS	NCVT WEEK	NO:10-11

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
,		WALL CHART
1) Voltage regulation in generator		
2) EMF equation of dc generator		
2) Eivil equation of de 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	
o) shall	charging	
	Charging	
7) compound	Reduce the voltage drop	
	of a long feeder line	
8)		
9)		
10)		
,		
11)		
11)		
12)		
12)		



TRADE: Electrician	TYPE OF CLASS: THEORY		1ST YEAR CLASS NO:110
MAIN TOPIC / CHAPTER: LEVEL-5)	DC MACHINE(NSQF	NO OF CLASS CHAPTER:9	S IN THIS MAIN TOPIC /
SUB TOPIC : : : DC GENE	RATOR	8TH C	CLASS OF THE MAIN
DURATION OF CLASS: 1	HOUR 20 MINTS	NCVT WEEK	NO:10-11

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
,		WALL CHART
1) generator troubles		
-, 8		
2) A) generator fails to generate the voltage		
2) A) generator rans to generate the voltage		
2) D) 1: (1		
3) B) sparking at the commutator		
4) C)heating of the generator		
5)problem solved		
5) Short question		
, 1		
7)		
7)		
8)		
9)		
10)		
,		
11)		
/		
12)		
14)		
	1	



TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY		1ST YEAR CLASS NO:111
MAIN TOPIC / CHAPTER: LEVEL-5)	DC MACHINE(NSQF	NO OF CLASS CHAPTER:9	S IN THIS MAIN TOPIC /
SUB TOPIC :CLASS TEST		9TH C TOPIC	CLASS OF THE MAIN
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)		



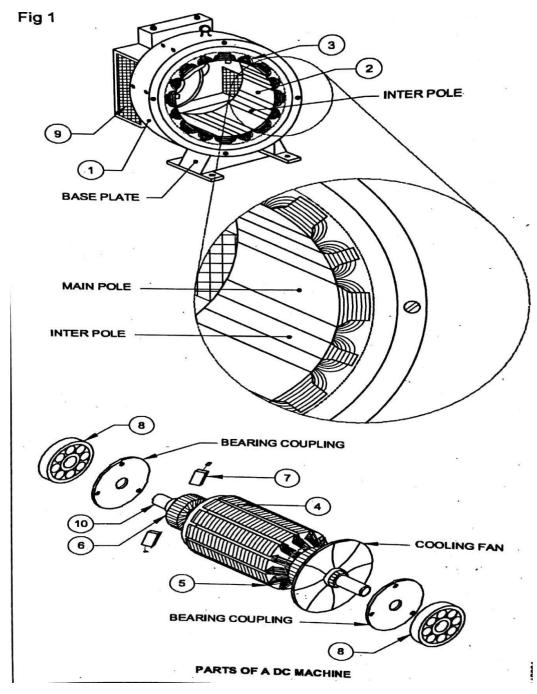
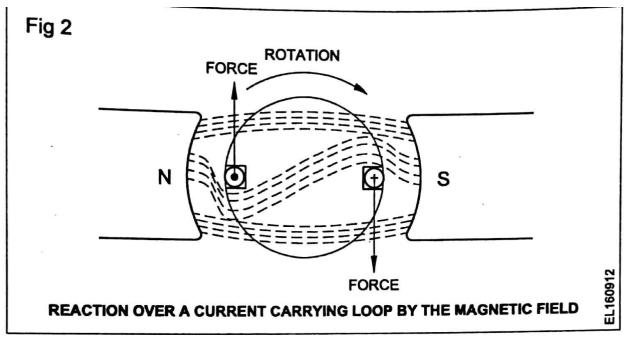


Fig.24





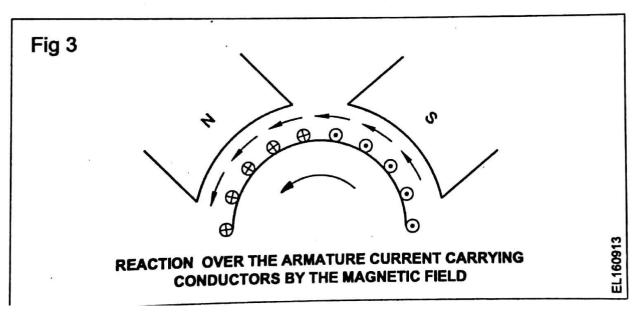


Fig.25



12)

TRADE:ELECTRICIAN	TYPE OF CLASS: THE	EORY /	-	1ST Y	YEAR CLASS NO:112
MAIN TOPIC / CHAPTER:DC MOTORS (NSQF LEVEL-5)		NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:10			
SUB TOPIC : DC MACHIN	NE .		1STC	LASS	OF THE MAIN TOPIC
DURATION OF CLASS:1 HOUR 20 MINTUES		NCVT WEEK	NO, 1	2-13	
KEY POINTS & DESCRIP NOS PER CLASS)	TION (AT LEAST 10		AMPLE / USTRY EXAMF	PLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)INTRODUCTION		Indu	stry ,trum , train		
2)WORKING PRINCIPLE					
3)BACK EMF					
4)TORQUE					
5)TYPES OF TORQUE		SHA	MATURE TORQ AFT TORQUE,LO RQUE		
6)RELETION BETWWEN TORQUE	BACK EMF AND				
7)					
8)					
9)					
10)					
11)					



TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY		1ST YEAR CLASS NO:113
MAIN TOPIC / CHAPTER: LEVEL-5)	DC MOTORS(NSQF	NO OF CLASS CHAPTER:10	S IN THIS MAIN TOPIC /
SUB TOPIC : DC MACHIN	IE	2 nd CI	LASS OF THE MAIN TOPIC
DURATION OF CLASS: 1	HOUR 20 MINTUES	NCVT WEEK	NO, 12-13

		<u>, </u>
KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
,		WALL CHART
1)FLEMING LEFT HAND RULES		Fig.26
1) ELMING ELI I IMMO ROLLS		116.20
AND ADDICITION OF DOMOTOR	GEDIEG MOTOR	
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		
3)COM COND MOTOR		
COL A COLCIETO A TION OF 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)		
10)		
11)		
11)		
12)		



TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY		1ST YEAR CLASS NO:114
MAIN TOPIC / CHAPTER: LEVEL-5)	DC MOTORS(NSQF	NO OF CLASS CHAPTER:10	S IN THIS MAIN TOPIC /
SUB TOPIC : DC MACHIN	IE	3 RD C	LASS OF THE MAIN TOPIC
DURATION OF CLASS: 1	HOUR 20 MINTUES	NCVT WEEK	NO.12-13

VEV DOINTS & DESCRIPTION (AT LEAST 10	EVAMDLE /	DIJOTO / VIDEO /
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)		



TRADE: ELECTRICIAN	TYPE OF CLASS: THEORY		1ST YEAR CLASS NO:115
MAIN TOPIC / CHAPTER: 5)	DC MOTOR(NSQF LEVEL-	NO OF CLASS CHAPTER:10	S IN THIS MAIN TOPIC /
SUB TOPIC :SHUNT MOT	OR	4_TH C	CLASS OF THE MAIN
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)		



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

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE / INDUSTRY	PHOTO / VIDEO /
NOS PER CLASS)	EXAMPLE	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)		



TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY		1ST YEAR CLASS NO:117
MAIN TOPIC / CHAPTER: LEVEL-5)	DC MACHINE(NSQF	NO OF CLASS CHAPTER:10	S IN THIS MAIN TOPIC /
SUB TOPIC : DC STARTE	R	6TH CI	LASS OF THE MAIN TOPIC
DURATION OF CLASS: 1	HOUR 20 MINTS	NCVT WEEK	NO:14

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	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)		



TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY		1ST YEAR CLASS NO:118
MAIN TOPIC / CHAPTER: LEVEL-5)	DC MACHINE(NSQF	NO OF CLAS CHAPTER:10	S IN THIS MAIN TOPIC /
SUB TOPIC :STARTER		7TH C	LASS 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)		



TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY		1ST YEAR CLASS NO:119
MAIN TOPIC / CHAPTER: LEVEL-5)	DC MACHINE(NSQF	NO OF CLASS CHAPTER:10	S IN THIS MAIN TOPIC /
SUB TOPIC :LOSSES OF I	OC MOTORS	8_TH CLA	ASS OF THE MAIN TOPIC
DURATION OF CLASS: 1	HOUR 20 MINTS	NCVT WEEK	NO:14

		I I
KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
NOS PER CLASS)	INDUSTRI EAAMIPLE	
		WALL CHART
1)LOSSES OF DC MOTOR		
1)LOSSES OF DC MOTOR		
OCODDED LOGGEG	EODMIII A AND	
2)COPPER LOSSES	FORMULA AND	
	EQUATION	
3)IRON LOSSES		
4)STRAY LOSSES		
,		
5)CONSTANT LOSSES		
3)CONSTRICT LOSSES		
6)VARIABLE LOSSES		
0) VARIABLE LOSSES		
7)EFFICIENCY OF DC MOTOR		
8)ELECTRICAL EFFICIENCY		
,		
9)COMMERCIAL EFFICIENCY		
))committee is si i consider		
10)MECHENICAL EFFICIENCY		
10)MECHENICHE EN TICIENCI		
11)		
11)		
10\		
12)		



TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY		1ST YEAR CLASS NO:120
MAIN TOPIC / CHAPTER: LEVEL-5)	DC MACHINE(NSQF	NO OF CLASS CHAPTER:10	S IN THIS MAIN TOPIC /
SUB TOPIC :SAFTY AND	PRECAUTION	9TH C	CLASS OF THE MAIN
DURATION OF CLASS: 1	HOUR 20 MINTS	NCVT WEEK	NO:14

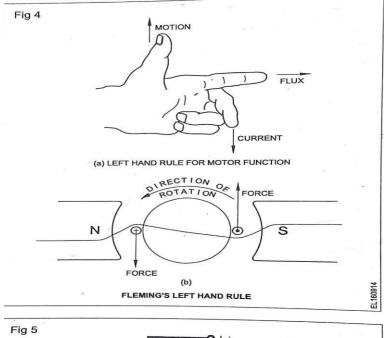
KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)SAFTY PRECAUTION FOR DC MOTOR		
2)TROUBLES OF DC MOTOR		
3)SELECTION DC MOTOR		
4)FAULTS OF DC MOTOR, THIER CAUSE AND REMEDIES		
5)MATHEMATICAL EQUATION		
6)SHORT QUESTION ANSWER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



TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY		1ST YEAR CLASS NO:121
MAIN TOPIC / CHAPTER: LEVEL-5)	DC MACHINE(NSQF	NO OF CLAS CHAPTER:10	S IN THIS MAIN TOPIC /
SUB TOPIC :CLASS TEST		10TH TOPIC	CLASS OF THE MAIN
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/
1)CLASS TEST OF DC MOTORS		WALL CHART
2)		
3)		
4)		
")		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		





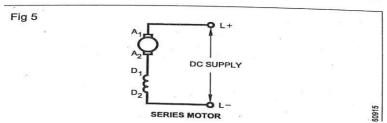


Fig.26

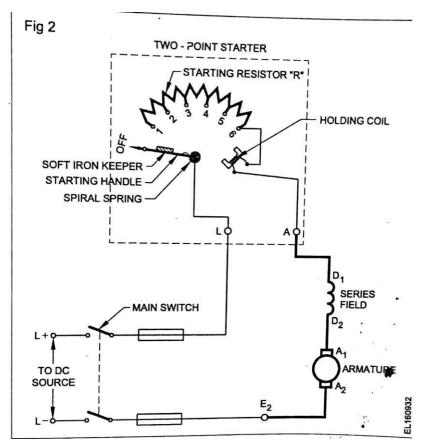


Fig.27



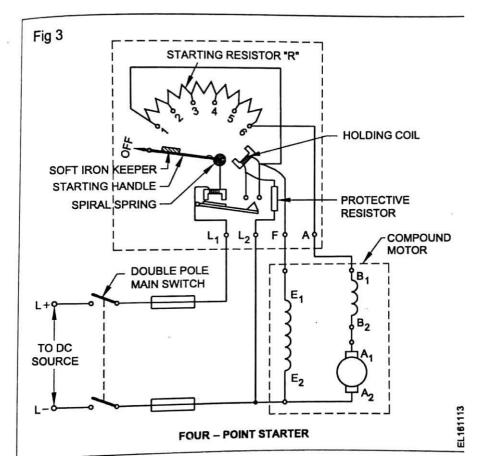


Fig.28



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

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/ WALL CHART
1)INTRODUCTION OF TRANSFORMER		WIEL CHIEC
,		
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)		
7)		
8)		
0)		
9)		
10)		
11)		
12)		
•		



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 : CONSTRUCT	ΓΙΟΝ\ OF TRANSFORMER	2 ND CL	ASS OF THE MAIN TOPIC
DURATION OF CLASS: 1	HOUR 20 MINTS	NCVT WEEK	NO:15-18

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



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 THE	RANSFORMER	3 RD CLASS O	F THE MAIN TOPIC
DURATION OF CLASS: 1	HOUR 20 MINTS	NCVT WEEK	NO:15-18

	T	1
KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
NOS I ER CLASS)	INDUSTRI EXAMILE	
		WALL CHART
1)TRANSFORMER RATIO	I1/I2=E1/E2=NI/N2	
,		
2)SOME MATHEMATICAL PROBLEM OF		
TRANSFORMER RATIO		
TRANSI ORMER MITTO		
3) EMF EQUATION		
4) SOME MATHEMATICAL PROBLEM OF		
TRANSFORMER EMF EQUATION		
5) AMMARED CODE AND COOLDIC CHICARDA		
5)LAMINATED CORE AND COOLING SYSTEM		
ODDOTEOTIVE DEVICE LIGED WITH		
6)PROTECTIVE DEVICE USED WITH		
TRANSFORMER		
7)IDON LOCC EDDY CUDDENT LOCC		
7)IRON LOSS, EDDY CURRENT LOSS		
,HYSTERESIS LOSS		
8)		
0)		
9)		
7)		
10)		
/		
11)		
,		
12)		



TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY		CLASS NO:125
MAIN TOPIC / CHAPTER:	TRANSFORMER(NSQF	NO OF CLASS	S IN THIS MAIN TOPIC /
LEVEL-5)		CHAPTER:11	
SUB TOPIC : LOSSES OF	TRANSFORMER	4 TH C	LASS OF THE MAIN TOPIC
DURATION OF CLASS: 1	HOUR 20 MINTS	NCVT WEEK	NO:15-18

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



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 T	RANSFORMER	5 TH CLA	SS 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		WALLCHART
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	
TO A GOOD DIVISITION THE OLD WITH	COOLED	
5) ACCORDING TO THE OUPUT	AUTO TRANSFRMER, CUREEN	
	TRANSFORMER,	
	POTENTIAL	
6) ACCORDING TO THE COMMERCIAL USE	TRANSFORMER POWER AND	
	DISTRIBUTION	
7) ACCORDING TO THE LOCATION	INDOOR AND	
7) ACCORDING TO THE EGENTION	OUTDOOR	
0) ACCORDING TO THE WINDDIG	CINCLE PRILAGE AND	
8) ACCORDING TO THE WINDING	SINGLE PPHASE AND THREE PHASE	
9)		
10)		
11)		



TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY		CLASS NO:127
MAIN TOPIC / CHAPTER: LEVEL-5)	TRANSFORMER(NSQF	NO OF CLASS CHAPTER:11	S IN THIS MAIN TOPIC /
SUB TOPIC : TYPES OFTE PRINCIPLE	RANSFORMER WORKING	6TH C	CLASS OF THE MAIN
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)		



TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY		CLASS NO:128
MAIN TOPIC / CHAPTER: LEVEL-5)	TRANSFORMER(NSQF	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:11	
SUB TOPIC : CONNECTION OF TRANSFORMER		7TH C	CLASS OF THE MAIN
DURATION OF CLASS: 1	HOUR 20 MINTS	NCVT WEEK	NO:15-18

		T = = = = = = = = = = = = = = = = = = =
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		



TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY		CLASS NO:129
MAIN TOPIC / CHAPTER: LEVEL-5)	TRANSFORMER(NSQF	NO OF CLASS CHAPTER:11	S IN THIS MAIN TOPIC /
SUB TOPIC : CONSTRUCTOR TRANSFORMER	TION OF TRANSFORMER	8TH C	CLASS OF THE MAIN
DURATION OF CLASS: 1	HOUR 20 MINTS	NCVT WEEK	NO: 15-18

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



TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY		CLASS NO:130
MAIN TOPIC / CHAPTER: LEVEL-5)	TRANSFORMER(NSQF	NO OF CLASS CHAPTER:11	S IN THIS MAIN TOPIC /
SUB TOPIC : CONSTRUCTOR TRANSFORMER	ΓΙΟΝ OF TRANSFORMER	9TH C	CLASS OF THE MAIN
DURATION OF CLASS: 1	HOUR 20 MINTS	NCVT WEEK	NO:15-18

KEY POINTS &	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO /
DESCRIPTION (AT LEAST		PRESENTATION/
10 NOS PER CLASS)		WALL CHART
1)ALL ABOUT AUTO	CIRCUIT DIAGRAM,TRANSFORMER	
TRANSFORMER	RATIO,ADVANTAGE,DISADVANTAGE,AND	
	USE	
2)INSTRUMENT	CURRENT AND POTENTIAL	
TRANSFORMER AND ITS	TRANSFORMER	
TYPE		
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)		
4.0)		
10)		
4.43		
11)		
12)		
12)		



TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY		CLASS NO:131
MAIN TOPIC / CHAPTER: LEVEL-5)	TRANSFORMER(NSQF	NO OF CL CHAPTER	ASS IN THIS MAIN TOPIC / 1:11
SUB TOPIC :CLASS REVI	EW	10_ TOPIC	TH CLASS OF THE MAIN
DURATION OF CLASS: 1	HOUR 20 MINTS	NCVT WE	EK NO:15-18

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/ WALL CHART
1)ALL TYPE MATHEMATICAL PROBLEMS ON		WALLCHART
TRANSFORMER		
ANGUADE OFFICENON WHOMED DISCORDINGTON		
2)SHORT QUESTION ANSWER DISSCUSSION		
3)		
4)		
5)		
3)		
6)		
7)		
8)		
0)		
9)		
10)		
11)		
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12)		
12)		



TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY		CLASS NO:132
MAIN TOPIC / CHAPTER: LEVEL-5)	TRANSFORMER(NSQF	NO OF CLASS CHAPTER:11	S IN THIS MAIN TOPIC /
SUB TOPIC :CLASS TEST		11TH TOPIC	CLASS OF THE MAIN
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/
1)CLASS TEST OF TRANSFORMER		WALL CHART
1)CLASS TEST OF TRANSFORMER		
2)		
2)		
3)		
4)		
5)		
6)		
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7)		
8)		
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11)		
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12)		



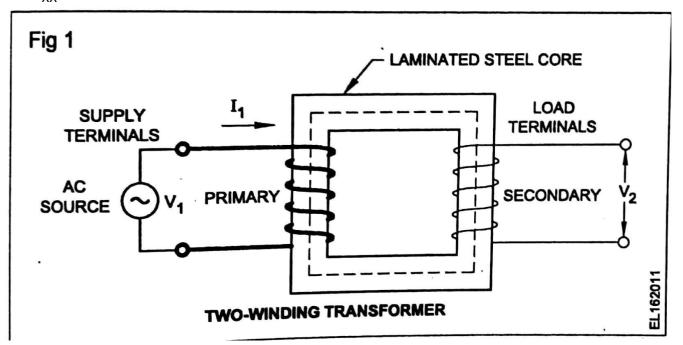


Fig.29



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

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY	PRESENTATION/ WALL
TOO TERCETION	EXAMPLE	CHART
1/2/TD 05/1/2T/07/07/07/07/07/07/07/07/07/07/07/07/07/	EXAMILE	CHART
1)INTRODUCTION OF MEASURING		
INSTRUMENT		
ANDIEGEDENT TYPES OF MEASURING		
2)DIFFERENT TYPES OF MEASURING		
INSTRUMENT		
3) ACCORDING TO USE	GALVANOMETER,	
o) Heconomic To Con	•	
	AMMETER, VOLTM	
	ETER,WATTMETER	
	,ENGERGYMETER,	
	OHMMETER, MEGG	
	ER,P.F METER	
A) A CCORDING TO CILAD A CEED CEICE		
4) ACCORDING TO CHARACTERSTICS	ABSOLUTE	
	INSTRUMENT	
	SECONDARY	
	INSTRUMENT	
5)INDICATING INSTRUMENT	II (STREWELVI	
5)INDICATING INSTRUMENT		
6)RECORDING INSTRUMENT		
7)INTEGRATING INSTRUMENT		
8)		
-,		
0)		
9)		
10)		
11)		
11)		
12)		
/		



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	2 ND CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:19-21

VEY DOINTS & DESCRIPTION (AT	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO /
KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE/INDUSTRY EXAMPLE	PRESENTATION/ WALL CHART
1)ACCORDING TO WORKING PRINCIPAL	ELECTROMAGNETIC INSTRUMENT, ELECTRODYNAMIC INSTRUMENT, ELECTROTHERMAL INSTRUMENT, ELECTROCHEMICAL INSTRUMENT.	WALLCHART
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)		



TRADE:ELECTRICIAN

DURATION OF CLASS: 1 HOUR 20 MINTS

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

CLASS NO:135

NCVT WEEK NO: 19-21

MAIN TOPIC / CHAPTER: MEASURING (NSQF LEVEL-5)INSTRUMENT	NO OF CLASS IN THIS MAIN TOPIC / CHAPTER:9
SUB TOPIC :PMMC	3 rd CLASS OF THE MAIN TOPIC

TYPE OF CLASS: THEORY

KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)	EXAMPLE / INDUSTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)INTRODUCTION OF PMMC		WILL CHINC
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)		



CLASS NO:136

MAIN TOPIC / CHAPTER: I	MEASURING (NSQF	NO OF CLASS IN THIS MAIN TOPIC /
LEVEL-5)INSTRUMENT		CHAPTER:9
SUB TOPIC :MOVING IRON	N INSTRUMENTS	4 TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 H	HOUR 20 MINTS	NCVT WEEK NO:19-21

TRADE:ELECTRICIAN TYPE OF CLASS: THEORY

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
,		WALL CHART
1) INTRODUCTION OF MI		
,		
2) WORKING PRINCIPLE		
,		
3) TYPES OF MI	ATTRACTION AND	
-, <u>-</u>	REPULSION TYPES	
4) ADVANTAGE OF MI		
1,112 111111111111111111111111111111111		
5) DISADVANTAGE OF MI		
0,232,2 (13,132,0)		
6)COMPARISON BETWEEN MC AND MI TYPE		
INSTRUMENTS		
7)INTRODUCTION OF ELECTRO DYNAMIC	DYNAMOMETER	
INSTRUMENTS	DITTANIONETER	
INSTRUMENTS		
8)WORKING PRINCIPLE		
o) working renter EL		
9) ADVANTAGE		
), IID (III (II I E E		
10) DISADVANTAGE		
10) 218112 (111(11102		
11)		
,		
12)		
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TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY		CLASS NO:137
MAIN TOPIC / CHAPTER: LEVEL-5)INSTRUMENT	MEASURING (NSQF	NO OF CLASS CHAPTER:9	S IN THIS MAIN TOPIC /
SUB TOPIC :DYNAMOME	ETER	5TH Cl	LASS 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)		



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	6TH CLASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS	NCVT WEEK NO:19-21

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



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 M	ETER	7TH Cl	LASS OF THE MAIN TOPIC
DURATION OF CLASS: 1 HOUR 20 MINTS		NCVT WEEK NO:19-21	

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
1105 I ER CERSS)		WALL CHART
1) OUR A MEMER		WALL CHART
1)OHM METER		
2) OHM METER WORKING PRINCIPLE		
2) OTHER WORKER TO THE YOR EL		
3)MULTIMETER		
4) MULTIMETER WORKING PRINCIPLE		
4) WOLTHWILTER WORKING TRINGILLE		
5)TYPES OF MULTIMETER	ANALOGUE AND	
	DIGITAL	
6) ANALOGUE MULTIMETER		
0) ANALOGOL WOLTHWETER		
7) DIGITAL MULTIMETER		
,		
0)		
8)		
9)		
- /		
10)		
10)		
11)		
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SUB TOPIC: TYPES OF METER

SHUBHANKARI PRIVATE INDUSTRIAL TRAINING INSTITUTE, KAKDWIP MASTER TEACHING PLAN

TH CLASS OF THE MAIN TOPIC

TRADE:ELECTRICIAN	TYPE OF CLASS: THEORY	CLASS NO:140
MAIN TOPIC / CHAPTER:	: MEASURING (NSQF	NO OF CLASS IN THIS MAIN TOPIC /
LEVEL-5)INSTRUMENT		CHAPTER·9

DURATION OF CLASS: 1 HOUR 20 MINTS		NCVT WEEK NO:19-21	
KEY POINTS & DESCRIPTION (AT LEAST 10 NOS PER CLASS)		MPLE / USTRY EXAMPLE	PHOTO / VIDEO / PRESENTATION/ WALL CHART
1)POWER FACTOR METER INTRODUCTION			
2) TYPES POWER FACTOR	SINO PHA	GLE SE,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	ELE	RATING REED, CTRO DYNAMIC O MOVIM\NG N	
7) PHASE SEQUENCE INDICATOR			
8)WORKING PRINCIPLE PHASE SEQUENCE INDICATOR	A-B- TYP	C OR C-B-A ES	
9)TONG TESTER AND TECHOMETER			
10) TONG TESTER AND TECHOMETER WORKING PRINCIPLE			
11)			
12)			



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		9TH C	CLASS OF THE MAIN TOPIC	
DURATION OF CLASS: 1	HOUR 20 MINTS	NCVT WEEK	X NO:19-21	

KEY POINTS & DESCRIPTION (AT LEAST 10	EXAMPLE /	PHOTO / VIDEO /
NOS PER CLASS)	INDUSTRY EXAMPLE	PRESENTATION/
TOO TERCELISS)		WALL CHART
1) OL A GO TREOT OF MEAGLIDING INGTRUMENT		WALL CHART
1) CLASS TEST OF MEASURING INSTRUMENT		
2)		
2)		
3)		
4)		
4)		
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12)		



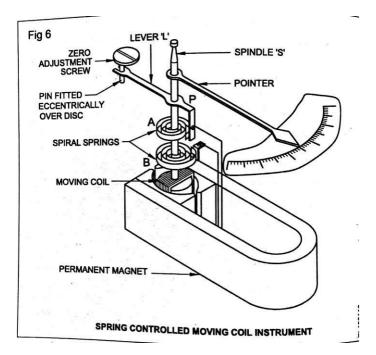


Fig.30

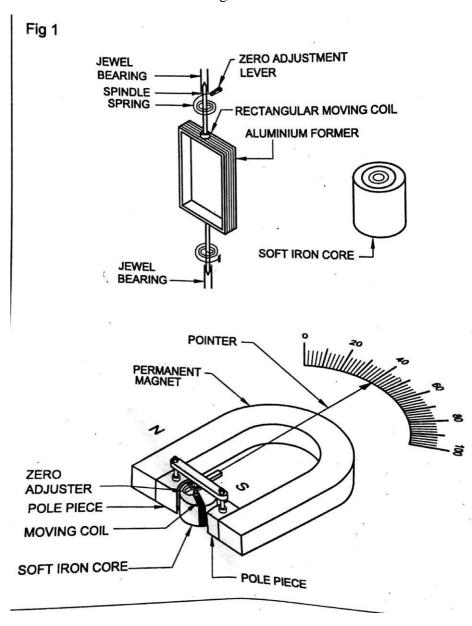


Fig.31