

SHORT TRAINING PROGRAMME

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DISA Institute of Science and Technology (DIST)

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Short Training Course: Cost sheet

Departmen	SL	Name of the courseDurationCourse fee		Total	Remark		
t	no		(weeks)	Training	Hostel (Accommoda tion & food)		S
	1	Electrical House Wiring	4	8,000/-	6000/-	14,000/-	
Electrical	2	Electrical Motor Winding	4	12,000/-	6,000/-	18,000/-	
	3	Industrial Electricity	4	12,000/-	6,000/-	18,000/-	
	4	Advanced Electrical Installation and Maintenance	2	20,000/-	3,000/-	23,000/-	
	5	Battery Technician	4	10,000/-	6,000/-	16,000/-	
Motorcycle	6	Motorcycle Electrical and electronics Maintenance	4	10,000/-	6,000/-	16,000/-	
	7	Motorcycle Servicing	4	8,000/-	6,000/-	14,000/-	
	8	Refrigeration & Air- Conditioning	8	16,000/-	12,000/-	28,000/-	
Refrigerati	9	Refrigerator	4	8,000/-	6,000/-	14,000/-	
on & Air- Conditioni	10	Window & Split Air- Conditioner	4	10,000/-	6,000/-	16,000/-	
ng	11	Water Chiller	2	12,000/-	3,000/-	15,000/-	
	12	Advanced Refrigeration & Air- Conditioning	2	20,000/-	3,000/-	23,000/-	
	13	Computer MS office	8	8,000/-	12,000/-	20,000/-	
	14	Graphic design, Photoshop/Illustrator	8	10,000/-	12,000/-	22,000/-	

a	15	Web Page Design &	8	14,000/-	12,000/-	26,000/-
Computer		Outsourcing				
	16	Computer Networking	8	12,000/-	12,000/-	24,000/-
	17	Computer Hardware Maintenance	8	12,000/-	12,000/-	24,000/-
	18	Auto CAD (Mechanical)	8	12,000/-	12,000/-	24,000/-
	19	Auto CAD (Civil)	8	12,000/-	12,000/-	24,000/-
Plumbing	20	Plumbing: (Pipe fitting & sanitary works)	4	8,000/-	6,000/-	14,000/-
	21	Fire Fighting (Water pipe line)	2	8,000/-	3,000/-	11,000/-
	22	Steel fixer/ Rod binding	4	8,000/-/-	6,000/-	14,000/-
	23	Shutter carpenter	4	8,000/-/-	6,000/-	14,000/-
Civil	24	Masonry (Plaster, bricks & hollow blocks seating)	4	8,000/-	6,000/-	14,000/-
Construction	25	Masonry (Tiles & marble stone fixing)	4	16,000/-	6000/-	22,000/-
	26	Masonry (Mosaic, tiles, marble stone & ceramics brick fixing)	8	20,000/-	12,000/-	32,000/-
	27	Painting (Building & spray)	4	10,000/-	6,000/-	16.000/-
	28	Painting (Metal spray)	4	10,000/-	6,000/-	16,000/-
	29	Welding: Arc (1G – 4G)	4	25,000/-	6,000/-	31,000/-
	30	Welding: MIG	1	20,500/-	1,500/-	22,000/-
	31	Welding: TIG (Normal)	1	20,500/-	1,500/-	22,000/-
	32	Welding: TIG (Pipe)	1	25,500/-	1,500/-	27,000/-
	33	Welding (Gas)	2	13,000/-	3,000/-	16,000/-
	34	Steel fabricating (Welding & metal work)	8	40,000/-	12,000/	42,000/-
Masharitaal	35	Turning (Lathe & Drill)	8	25,000/-	12,000/-	37,000/-
Mechanical	36	Milling operation	8	25,000/	12,000/-	37,000/
	37	Mechanical fitting	8	18.000/-	12000/-	30,000/-
	38	Drawing & Design (Mechanical)	4	16,000/-	6,000/-	22,000/-
	39	Machine shop practice (Lathe, Drill, Milling, Shaper & Grinding Machine Operation)	8	30,000/-	12,000/-	42,000/-
RMG	40	Sewing Machine Operation	4	10,000/-	6,000/-	16,000/-
(Ready Made Garments)	41	Tailoring & Dress Making	4	8,000/-	6,000/-	14,000/-

	42	Workshop Management	1	10,000/-	2,000/-	12,000/-	
	43	Technical School Management	1	10,000/-	2,000/-	12,000/-	
	44	Spoken English	4	8,000/-	-	8000/-	
Manageme	45	House Keeping	4	10,000/-	6,000/-	16,000/-	
nt & Others	46	Occupational Safety, Health & Environment	3 (days)	7,000/-	Negotiable	7,000/-	
	47	Safety in industry	3 (days)	7,000/-	Negotiable	7,000/-	
	48	Tailor Made	As per need	Negotiable			

Course No-01 Electrical house wiring 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	Safety method of works. Safety rules and precautions. Primary electric shock treatment. Introduction and use of electrical hand tools and equipments.	Bulb connection. Series circuit. Parallel circuit etc.	Tube light connection and testing, concept of PVC trucking wiring.	Three phase Motor connection. Push button switch Magnetic starter. Reverse forward switch. Auto star delta starter. Magnet and Magnetism.
Sun	Electrical conductor and insulator. Wires and cable joint and soldering (practice) Concept about house wiring.	Series and parallel combined circuit. Bulb connection one-two- three.	Batten wiring. Channel wiring. Electrical plan. House wiring and practical. IPS connection.	Chang over switch. Single phase Motor, Fan connection. Universal Motor, Capacitor start M. C, Capacitor Start and Run Motor Connection.
Mon	Surface wiring. Concealed wiring. Measurement electrical symbols, Circuit diagram,	Series circuit. Parallel circuit. combined Circuit. Verities bulb connection	Diagram of electrical plan. Surface conduit wiring. Concealed conduit wiring. Conduit size.	Hand drill and hand grinding M. connection. Shaded pole Motor c. Electric iron, Auto light controller,
Tue	Bulb connection- one-two- three etc. Basic electricity theory. Structure of atom. Electricity A.C and D.C.	5 Ampere socket connection Fan connection with regulation.	Analog AVO meter Digital multi meter. AVO Use of analogue and digital clamp meter. Volt meter,	Three phase three wire meter & Three phase four wire E.M. connection.
Wed	Electric current voltage resistance and power. AC circuit. Cycle. Frequency. Single phase circuit.	Verities Bulb connection Fan connection 5 Ampere socket connection. Calling bell connection. PVC trucking wiring.	Ampere meter, Energy meter. Concept about Wires and conduct size,	A.C. generator, Battery connection and practical, Charging solar cell system and practical. Concept about transmission & distribution system (Over head line).
Thu	Three phase circuit. Ohm's law of mathematics. Kerchief's laws.	15 Ampere socket maintain by15 A switch with circuitbreaker.Combined socket connectionwith circuit breaker. Veritiescircuit connection.	Power and energy measuring system. Use of mugger and practical. Insulation resistance test.	Electrical insulation & maintenance system, review or discussion of the whole system. Certificate distribution

Course No-02 Electrical motor winding 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	Safety method of works. Operation use and maintenance of electrical hand tools and equipment. Electricity AC. & DC.	Different types of capacitor. Capacitor start Motor.	Pedestal fan re-winding. Table fan re-winding. Running coil and auxiliary coil connection.	Three phase Motor re- winding practice. Back side taping.
Sun	Motor re-winding device and re-winding device and appliances fiber, cotton tape etc.	Capacitor start and run Motor connection practice. Capacitor run Motor, field coil re-winding.	Table fan re-winding practice. Shaded pole Motor. Universal Motor. Re-winding practice.	Connection and ball testing. Three phase Motor connection lead side taping and end plate fitting.
Mon	Different types of single and three phase induction Motor. Data sheet of single and three phase Motor.	Ceiling fan re-winding practice. Ceiling fan re- winding practice	Universal Motor and transformer theory and practical. Transformer re- winding practice.	Switch connection and final testing.
Tue	Principle of single and three phase Motor winding- basket, Chain, Diamond winding. Forma- Round forma Step round forma etc.	Capacitor testing and connection. Fan regulator re-winding and connection.	Two phase Motor and two speed Motor connection diagram.	Three phase Motor R.P.M. test, Load test. Mathematical calculation of power, voltage and current.
Wed	Super enamel wire size (0.05mm - 2.99m.m) Motor opening and fibrins practice. Split phase motor winding practice.	Fan regulator ante, fibrin and re-opening winding practice.	Another Motor diagram practice. Three phase induction Motor theory.	Use of analogue and digital multi meter meager testing etc.
Thu	Split phase Motor winding and connecting practice. Running coil connection. Starting coil connection. Centrifugal switch connection.	Pedestal fan re-winding practice. Regulating switch connection. Blower fan re- winding practice.	Data sheet of three phase Motor, open and cleaning. Insulating and re-winding practice.	Electrical motor burnishing and maintenance system. Review of the whole course.

Course No-03 Industrial electricity 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3rd	4 th
Sat	Safety method of works. Safety rules and precautions. Electric shock treatment.	Single phase Motor connection. Three phase Motor connection. Fan, Tube light, Calling bell Connection.	PDB & generator connection by changeover switch. Concepts of limit switch, float switch, micro switch and its connection with motor starter.	Concepts about Industrial Electrical installation and maintenance system.
Sun	Industrial safety. Fundamental electricity theory. Current, voltage, resistance, conductor, semi conductor, insulator etc.	Electrical connection diagram and operation Ammeter, Voltmeter, Frequency meter, Power factor meter, Meager, etc.	Control of water pump by float switch. Traffic / Road signal light control ckt connection.	General principle of A.C generator. Single phase and three phase generator. Operation and
Mon	Alternating and direct current (AC, DC) Series and parallel circuits.	Concepts of electrical device, Appliance and accessories and wiring practice. Introduction of Direct-on-line starter (DOL) and its connection.	Reverse forward and inch ckt connection. Automatic PDB and generator line change over circuit connection. Illumination system.	maintenance system. Maintenance system of single phase and three phase generator.
Tue	Concept of electric hand tools. Concept of electric equipment. Cable joint and soldering.	Earth connection, concepts about magnetic starter, magnetic starter connection (DOL ckt), jogging/inch connection of starter.	Surface grinding machine control ckt connection. Overload relay, timer, circuit breaker etc. connection and practice.	Safety precaution for generator. Single phase and three phase KWH Meter connection.
Wed	Ohm's law and mathematics. Kerchiefs law.	Reverse forward ckt. connection manual & automatic.	Introduction of AC Transmission and distribution system. H.T switch gear.	Lead Acid battery, testing and connection. Safety precaution for generator.
Thu	Electrical measuring instrument and practical. (Analogue and Digital multi meter) Clip on test meter (Digital and analogue).	Auto star Delta starter connection. Concepts about overload relay, trimmer.	Transformer (H.T & L.T) LT Panel board and distribution system. Concept of earthling.	Basic electronic, Diode, rectifier, resistor, capacitor, transistor etc. Soldering system. Color code.

Course No-04 Advanced Electrical Installation & Maintenance 2 (Two) Weeks Training Program

Day / Week	1 st	2 nd
Sat	Electrical Safety Rules and	Electrical machine connection procedure.
	precautions.	Welding Machine, Mig, and Tig connection. Hand Drill
	Fundamental electricity theory.	and Hand grinding Machine
	Ohms Law and Mathematics.	
	Cable joint.	connection and practice.
Sun	Concept of AVO Meter (Analogue &	Limit switch.
Sun	Digital) Ampere Meter, Volt Meter, Hz	A.C Transmission and distribution system. H.T.
	Meter, KWH Meter, Connection.	
	Earth testing by Meager.	Switch Gear. Transformer (H.T & L.T) L.T Panel Board
Man	Wiring practice.	and distribution system. Concept of earthling.
Mon	Electric Cable size calculation.	
	Electrical symbol.	
	Electrical Drawing practice. House	General principle of A.C Generator.
Tue	wiring trouble shooting and Remedy.	Single phase and three phase generator.
Tue	Load calculation.	Operation and Maintenance system.
		Lead Acid Battery test and connection.
	Fan, Tube light, Calling Bell	Basic Electronic, Diode, Rectifier, Resistor, Capacitor,
Wed	connection. Three phase Motor	Transistor etc.
weu	connection by Star Delta starter.	Soldering system.
	S D	Installation & maintenance of solar home system.
	Trouble shooting and Remedy Fan,	Electrical installation and maintenance system. Review
Thu	Single and three phase Motor,	or discussion of the whole course.
	Magnetic conductor.	Certificate distribution.

Course No-32 Welding Gas 2 (Tow) Weeks Training Program

Day / Week	1 st	2 nd		
Sat	I Introduction of gas	Introduction of different types of joint. Gas		
	welding & its equipment.	welding practice T-ee joint.		
	Gas welding flame &	E A		
	safety.			
Sun	Gas welding practice on	Knowledge about Gas welding flux & their		
Sull	fusion bead.	function.		
11	Demonstration of Gas	Gas welding practice horizontal position.		
Mon	welding sets.			
NIOII	Welding practice on			
	straight bead.			
	Different types of filler rod &	Different types of nozzle and their uses.		
Tue	their uses.	Welding practice vertical position.		
Tue	Welding practice on butt			
10	joint.			
17	Different types of metal	Gas welding practice on Brazing.		
Wed	preparation. Gas welding			
	practice lap joint.	CIA		
	Relation between base	Gas cutting theory.		
Thu	metal & filler rod. Welding	Gas welding and cutting practice straight &		
	practice on corner joint.	round cutting.		

Course No-05 Battery technician 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	Introduction to electric power supply AC, DC supply, single phase supply.	Tools and equipment require to work with lead acid battery. Use of each tools and equipment.	Battery setting in the car and battery maintenance practice.	Battery charging : Trickle charging.
Sun	source of AC and DC, voltage range of AC and DC.	Magnet, Battery capacity determination, sulphation of battery.	Battery parallel and series connection. Battery setting with the generator.	Slow charging and Quick charging.
Mon	Electricity, current, voltage, resistance, measurement of resistance, current and voltage. Identification of AC and DC.	Practice of finding (+)ve and (-)ve terminal of lead- acid battery.	Use of AVO meter and Hydrometer.	Battery charge in the car. Observation of charging ckt. components in a car.
Tue	Ckt. Series ckt, parallel ckt, practice on series ckt and parallel ckt, series -parallel ckt, Demonstration on series ckt, parallel ckt, series - parallel ckt.	Terminal condition and connecting with load and capacity of lead acid battery.	Effect of battery connection in series and parallel.	Battery charging components, function and connection.
Wed	Introduction to battery, types of battery, construction of battery.	Electrolyte making. Precaution and practice of battery electrolyte making.	Practice of cell tester load tester and fault finding of battery.	Practice of connection of auto charging in the car.
Thu	Safety practice of lead acid battery, Battery parts identification and function of each parts.	Battery operation and battery specification.	Manufacturing of lead acid battery, terminal repairing. Use of blow lamp.	Battery faults finding and Revision.

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Course No-06 Motorcycle electrical and electronics maintenance 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	Introduction about	Use of Avo meter	Adjust Ignition timing & CB point gap and speak plug	head light ckt wring by battery
	Motorcycle.	0		ballery
	Introduction of		gap	
	occupational Safety and			
	health (OSH)			
Sun	Identity tools and Spares pasts	Soldering Practice	Identity and servicing	Knowledge of park light, back
Suii			CD/Ignition system	light brake light ckt
	Use of tools	Knowledge and skills of 12-	Identity and servicing battery	Knowledge of self starting ckt
Mon		Volt battery charger	charging system, voltage	& relay or solonide switch
			regulator and rectification	×
	Electrical wires and cable	Knowledge and skills of	Test switch & connection	Knowledge of self starting ckt
Tue	joint practice	battery charging and dis		& relay or solenoids switch
Tue		charging system & test		11
	10	electivity gravity		
	Knowledge of Electrical	Identify magneto	Identify and servicing turn	Knowledge of dash board
Wed	current, voltage, resistance	Ignition System	Indicator Ckt and flashing	lighting system & gear
	and power		system	position neutral position ckt
	Electrical symbols & Circuit	Test Ignition switch Ignition	Head light ckt using by	revision of certificate
Thu	diagram.	coil, lighting coil & Ignition	lighting coil	distribution
1 110	Application of basic	coil		
	electronics component			

Course No-07

Motorcycle servicing 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	Introduction to Motor cycle. Occupational Safety and health (OSH) in Motor cycle repairing and work place.	Details demonstration on the petrol Fuel system. Carburetor parts identification and function different circuit of carburetor.	Details demonstration on the Suspension system. Front and rear shock absorber disassembly re-assembly and servicing practice.	Low tension magneto ignition circuit practice. Contact barker (C.B) point and spark plug gap adjustment.
Sun	Identification and introduction on motor cycle systems: (1) Body (2) Chassis (3) Engine.	Venture of carburetor. Air fuel ratio. Carburetor float, slow running adjust practice and fuel system servicing.	Details demonstration on the Steering system. Steering system disassembly re- assembly and servicing practice.	Ignition timing adjustment. CDI, ignition circuit practice faults finding & repairing.
Mon	(4) Fuel (5) Cooling (6) Lubricating (7) Brake (8) Suspension (9) Steering (10) Power transmission (11) Electrical and Electronic (12) Wheel and Tier.	Details demonstration on the Cooling . Type of cooling system. Component of cooling system and their function. Cooling system servicing.	Details demonstration on the Power Transmission system. Types of clutch, Components of clutch. Clutch disassembly re-assembly and servicing practice.	Motor cycle electrical circuit practice. Such as horn, head light, indicating brake, park, hazard electrical motor starting and battery charging circuit battery maintenance and topping up practice.
Tue	Details demonstration on the Body system, Chassis system and Engine system. Engine part's identification and their function.	Details demonstration on the Lubricating system. Type of lubricating system. Component of lubricating system and their function. Types of lubricants. Fault finding and repair.	Identification and introduction of gearbox component. Gearbox disassembly, re- assembly and servicing practice. Drive chain & sprocket servicing and adjustment.	Details demonstration on the Wheel and tyre system. Tube disassembly and re-assembly Tube vulcanizing. Wheel balancing practice.
Wed	Classification of engine. Difference between petrol and diesel engine. Principle of engine operation (2 and 4 stroke petrol engine).	Details demonstration on the Brake system. Types of two wheeler brake system. Component of brake system, identification and their function.	Details demonstration on the Electrical and Electronics system.	Details demonstration on the Engine overhauling practice. Such as piston and piston ring disassembly, piston ring gap check, valve lapping engine timing and tappet clearance.
Thu	Finding T.D.C. & B. D.C. Valve timing practice. Tappet clearance and measurement practice.	Details demonstration on the Mechanical and hydraulic brake system. Disassembly, re-assemble servicing adjustment of brake system.	Identification of ignition system. Types of ignition system. Function of ignition. Component of ignition and their function.	Motor cycle general servicing practice, revision & Examination

Course No-08

Refrigeration & Air Conditioning 8 (Eight) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	Introduction to refrigeration and air conditioning. Definitions and units of heat, temp & pressure. Identification of different refrigeration equipment available in RAC shop.	Practice measuring pressure, demonstration on compound gauge, high pressure gauge, double gauge manifold; use and care of charging hoses. Demonstration on the use of analog & digital AVO meter, Ampere meter, multi meter.	Start a 3 phase motor with starter and ckt. breaker; Start a 3 phase motor in reverse and forward motion; star and delta connection of 3 phase motor; transformer.	Identify the electrical components used in non frost refrigerator freezer, check for its proper function, check timer, defrost thermostat, thermal fuse, lamp & fan switch and other components.
Sun	List of special cooling equipment. Identification of common hand tools, measuring tools; special tools & measuring tools and materials used in refrigeration and air conditioning work.	Definition of electricity, current, voltage and resistance, units, explanation of ohm's law. Source of electric current; use of voltage stabilizer, volt guard, measuring practice of voltage, current and resistance.	Check transformer resistance, continuity, ground voltage input and output. Compressor dome cutting, identification of interior parts, identification of faults, remedies and setting the dome for welding & charging oil; checking pumping & motor condition.	Connect all components for operation. Demonstration on the function of timer, heater, defrost thermostat, fan and lamp- fan switch; thermostat etc.
Mon	Practice and use of hand tools and measuring tools used in RAC works, measuring diameter, thickness, length, area and volume in SI and metric system.	Electrical wiring for series board, use of series board for continuity, resistance and grounding. Identify electrical fitting required in refrigeration and air conditioning work.	Identify different types of relay, test/check relay, OLP, capacitor, thermostat, pressure cutout.	Repeat the above on the refrigerator freezer. Check wiring of chest type freezer, disconnect all wiring and reconnect it; check and inspects if any mistake. Operate for cooling.
Tue	Demonstration on the operation of refrigeration cycle.	Specification of electrical fittings, Demonstration on three phase & single phase power supply system.	Demonstration on magnetic contractor. Making wiring of frosted refrigerator freezer on the table; check wiring of a frosted type domestic refrigerator freezer.	Check wiring of a water cooler, operate for its proper function, detect fault if any, check cooling & automatic operation.
Wed	Introduction to refrigeration piping and fittings; Identify refrigeration fitting, identify with appropriate measurement; Identify water line fittings of central air- conditioning plant.	Introduction to electrical circuit, series ckt, parallel ckt, making series ckt, and parallel ckt, effect of series ckt and parallel ckt, measuring voltage drop on each resistance.	Starting the refrigerator freezer. Check Ampere & cooling.	Factors to be considered for installation & operation. Identify different types of water cooler.
Thu	Introduction to copper tube cutting, bending, flaring, swazing, brazing, welding.	Demonstration on single phase motor, identify different types of motors, three phase	Making wiring of auto defrost refrigerator- freezer on the table-testing for its operation,	Check beverage cooler, check for compressor motor, fan motor, operate for cooling,

ng, welding- opper & stating without relay and st; steelmotors; terminal identification defrosted type refrigerator- freezer.operation. Check up right freezer.opper & stating without relay and st; steelcapacitor; starting with relay &defrosted type refrigerator- freezer.operation. Check up right freezer.	cutting, bending, flaring, swazing and brazing; welding- brazing, practice on copper & copper; copper & steel; steel
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Day / Week	5 th	6 th	7 th	8 th
Sat	Test leak in a refrigerator- freezer, repair leak if any; Evacuate and charge appropriate refrigerant.	Check refrigerant in the split type air conditioner; charge refrigerant if part charge required. Check leak if empty. Evacuate if full charge required then charge refrigerant.	Identification of air- conditioner. Check electrical ckt, leak test, evacuation and refrigerant charging.	Refrigerator Skills Test
Sun	Refrigerant, types of refrigerant, CFC, HCFC, HFC, HC & HC blend. Refrigerant handling. Identify the electrical components of a window type air conditioner.	Introduction to different types of air conditioner; mention the advantages and disadvantages of split type over package type.	Repairing : Domestic refrigerator freezer (Frosted type).	Window air-conditioner Skills Test
Mon	Check and connect all the components. Check selector switch, fan motor, compressor motor reconnect and operate.	Mention the advantages and disadvantages over window type. Operate for its function. Check for its performance.	Repairing : Non Frost type refrigerator Freezer.	Split air-conditioner Skills Test
Tue	Operate window cooler for operation, check the effect of voltage, cooling and correct operation; test for thermostat; charge refrigerant.	Service the condenser & other components; check wiring. Identify the components of central air conditioning plant.	Repairing Water cooler / Water dispenser.	Refrigerator Fault finding, remedy, repair maintenance & servicing
Wed	Identify the components of split type air condition; study the name plate, check for cooling capacity, FLA, voltage and other information; operate if running; check ampere.	Identify refrigeration components, condenser cooling water components, operating switches and operating procedure.	Good practice in refrigeration and air conditioning.	Air-conditioner fault finding, remedy, repair maintenance & servicing Introduction of different air-conditioners
Thu	Check the wiring of split type AC on demonstration model, operate the electrical ckt, check wiring on the installed unit, compare the model ckt and the installed ckt.	Identify refrigeration components, condenser cooling water components, operating switches and operating procedure.	Good practice in refrigeration and air conditioning.	Revision & Certificate Distribution

Course No-10 Refrigerator 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	Introduction to refrigeration	Demonstration on compound	Start a 3 phase motor with	Demonstration on the function of
	and air conditioning. Definitions	gauge, high pressure gauge,	starter and ckt. breaker; Start a	timer, heater, defrost thermostat,
	and units of heat, temp & pressure	double gauge manifold; use	3 phase motor in reverse and	fan and lamp- fan switch;
	Identification of different	and care of charging hoses.	forward motion; star and delta	thermostat etc. Repeat the above
	refrigeration equipment	Demonstration on the use of	connection of 3 phase motor;	on the refrigerator freezer.
	available in RAC shop. List of	analog & digital AVO meter,	transformer, check transformer	
	special cooling equipment.	Ampere meter, multi meter.	resistance, continuity, ground	

			voltage input and output.	
Sun	Identification of common hand tools, measuring tools; special tools & measuring tools and materials used in refrigeration and air conditioning work.	Define of electricity, current, voltage and resistance, units, explanation of ohm's law. Source of electric current; use of voltage stabilizer, volt guard, measuring practice of voltage, current and resistance.	Compressor dome cutting, identification of interior parts, identification of faults, remedies and setting the dome for welding & charging oil; checking pumping & motor condition.	Check wiring of chest type freezer, disconnect all wiring and reconnect it; check and inspects if any mistake. Operate for cooling.
Mon	Practice and use of hand tools and measuring tools used in RAC works, measuring diameter, thickness, length, area and volume in SI and metric system. Demonstration on the operation of refrigeration cycle.	Electrical wiring for series board, use of series board for continuity, resistance and grounding. Identify electrical fitting required in refrigeration and air conditioning work. Specification of electrical fittings, Demonstration on three phase & single phase power supply system.	Identify different types of relay, test/check relay, OLP, capacitor, thermostat, pressure cutout. Demonstration on magnetic contractor.	Mention the advantages and disadvantages over window type. Repair, maintenance and servicing of window Type air- conditioner.
Tue	Introduction to air-conditioning piping and fittings; Identify Ac fitting, identify with appropriate measurement.	Demonstration on three phase & single phase power supply system.	Making wiring of window type air-conditioner on the table; check wiring of window Ac. Starting the window AC. Check Ampere & cooling.	Refrigerator repair, maintenance & servicing practice
Wed	Introduction to copper tube cutting, bending, flaring, swaging, brazing, welding. Practice on copper tube cutting, bending, flaring, swaging.	Introduction to electrical circuit, series ckt, parallel ckt, making series ckt, and parallel ckt, effect of series ckt and parallel ckt, measuring voltage drop on each resistance.	Making wiring of split type Air- conditioner on the table, testing for its operation, make check the wiring of split type Ac.	Refrigerator Fault finding, remedy, repair maintenance & servicing
Thu	Welding practice on copper tube cutting, bending, flaring, swaging and brazing; welding- brazing, practice on copper & copper; copper & steel; steel & steel etc. Soldering practice.	Demonstration on single phase motor, identify different types of motors, three phase motors; starting methods of motors; terminal identification of composer motor, motor stating without relay and capacitor; starting with relay & capacitor.	Identify the electrical components used in non frost refrigerator freezer, check for its proper function, check timer, defrost thermostat, thermal fuse, lamp & fan switch and other components. Connect all components for operation.	Revision on previous work. Practical & Viva Test. Certificate Distribution

Course No-11

Window and split air-conditioning 4 (Four) Weeks Training Program

Day / Week	1 st	4 (Four) Weeks Trainin 2 nd	3 rd	4 th
Sat	Introduction to refrigeration and air conditioning. Definitions and units of heat, temp & pressure. Identification of different refrigeration equipment available in RAC shop. List of special cooling equipment.	Demonstration on compound gauge, high pressure gauge, double gauge manifold; use and care of charging hoses. Demonstration on the use of analog & digital AVO meter, Ampere meter, multi meter.	Start a 3 phase motor with starter and ckt. breaker; Start a 3 phase motor in reverse and forward motion; star and delta connection of 3 phase motor; transformer, check transformer resistance, continuity, ground voltage input and output.	Check refrigerant in the split type air conditioner; charge refrigerant if part charge required. Check leak if empty. Evacuate if full charge required then charge refrigerant.
Sun	Identification of common hand tools, measuring tools; special tools & measuring tools and materials used in refrigeration and air conditioning work.	Define of electricity, current, voltage and resistance, units, explanation of ohm's law. Source of electric current; use of voltage stabilizer, volt guard, measuring practice of voltage, current and resistance.	Compressor dome cutting, identification of interior parts, identification of faults, remedies and setting the dome for welding & charging oil; checking pumping & motor condition.	Introduction to different types of air conditioner; mention the advantages and disadvantages of split type over package type.
Mon	Practice and use of hand tools and measuring tools used in RAC works, measuring diameter, thickness, length, area and volume in SI and metric system. Demonstration on the operation of refrigeration cycle.	Electrical wiring for series board, use of series board for continuity, resistance and grounding. Identify electrical fitting required in refrigeration and air conditioning work. Specification of electrical fittings, Demonstration on three phase & single phase power supply system.	Identify different types of relay, test/check relay, OLP, capacitor, thermostat, pressure cutout. Demonstration on magnetic contractor.	Test leak in a refrigerator- freezer, repair leak if any; Evacuate and charge appropriate refrigerant. Refrigerant, types of refrigerant, CFC, HCFC, HFC, HC & HC blend. Refrigerant handling.
Tue	Introduction to air conditioner piping and fittings; Identify refrigeration fitting, identify with appropriate measurement.	Demonstration on three phase & single phase power supply system.	Making wiring of window on the table; check wiring of a frosted type domestic refrigerator freezer. Starting the refrigerator freezer. Check Ampere & cooling.	Split type air-conditioner repair, maintenance & servicing practice
Wed	Introduction to copper tube cutting, bending, flaring, swaging, brazing, welding. Practice on copper tube cutting, bending, flaring, swaging.	Introduction to electrical circuit, series ckt, parallel ckt, making series ckt, and parallel ckt, effect of series ckt and parallel ckt, measuring voltage drop on each resistance.	Operate window cooler for operation, check the effect of voltage, cooling and correct operation; test for thermostat; charge refrigerant.	Window and Split type Ac Fault finding, remedy, repair maintenance & servicing.
Thu	Welding practice on copper tube cutting, bending, flaring, swaging and brazing; welding-brazing, practice on copper & copper; copper & steel; steel & steel etc. Soldering practice.	Demonstration on single phase motor, identify different types of motors, three phase motors; starting methods of motors; terminal identification of composer motor, motor stating without relay and capacitor; starting with relay & capacitor.	Identify the components of split type air condition; study the name plate, check for cooling capacity, FLA, voltage and other information; operate if running; check ampere.	Revision on previous work. Practical & Viva Test. Certificate Distribution

Course No-12 Water Chiller 2 (Two) Weeks Training Program

Day / Week	1 st	2 nd
Sat	Introduction to water chiller. Working principle of refrigeration cycle. Different methods of	Refrigerants, classification, identification of refrigerants used in water chilling. Safe handling of refrigerants.
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	refrigeration.	
SunExplain heat, temp and pressure. Units of heat, temp and pressure; relation between the units. Measurement of temp, pressure, humidity.		Refrigerant recovery. Refrigeration piping, condenser cooling water piping, chilled water piping, fitting; insulation.
Mon	Capacity of the refrigeration plant. Refrigeration cycle of water chiller. Identification, classification of different types of water chiller.	parallel operation of compressors and chillers. Pumps, types, parallel operation of pumps, specification of pumps, condenser cooling water header,
Tue	Application of water chiller in different field. Compressor, condenser, receiver, expansion device and evaporators used in water chiller.	chilled water header. Cooling towers, demonstration, types of cooling towers.
Wed	Classification of the major components of the chiller. Auxiliaries and accessories used in refrigeration cycle; function and location in the cycle.	Leak test evacuating and charging of operation of the plant.
Thu	Safety and controllers devices used in the chilling cycle. Demonstration of the common safety devices and controllers.	Observation of operational variables. Log book recording. Review

Course No-13 Advanced Refrigeration & Air-conditioning 2 (Two) Weeks Training Program

Day / Week	1 st	2 nd
Sat	Definition of related terms with refrigeration and Air-conditioning. Laws of refrigeration	Low temperature refrigeration units. Cascade system, multi stage system, multiple temperature system.
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	Development and use of refrigeration. Refrigeration cycle components.	Defrosting methods.
Sun	Compressor, types, specification, capacity, application of different types of compressors. Checking compressor Motor, causes of failure of compressor & Motor. Maintenance of sealed, semi sealed and open type compressor.	Split type air-conditioner, electrical ckt, installation, evacuating and gas charge. Commercial refrigeration system. Checking and performance test of a refrigerating plant.
Mon	Evaporating and condensing pressure effect on compressor capacity. Condenser, classification, Use, care and maintenance. Evaporator, types & use: liquid chilling evaporators. Expansion devices, types and application.	Writing specification of refrigerating equipment. Psychometric chart, psychometric process and psychometric calculations.
Tue	Operation of thermostatic expansion valve, capacity of expansion valve. Auxiliaries used in refrigeration cycles.	Sizing of pipes and tubes. Rating & specification of spare parts & materials used in RAC.
Wed	Refrigerants, properties of refrigerants types, CFC, HCFC, HFCS, HC and HC blend, ozone friendly refrigerants, refrigeration oils. Effect of refrigerant on the plant capacity. Recovery, recycle, reclaim and retrofit of refrigerants.	Analysis of refrigeration cycle by PH diagram. Calculating the COP, mass flow, capacity of the plant Duct and ducting system.
Thu	Leak test, evacuating, charging and purging. Charging methods. Full charge indication/ confirmation.	Air-conditioning, types, operation of central Air- conditioning plant. Controls and safety devices used in RAC. Evaluation and certificate award.

Course No-14 Computer MS office 8 (Eight) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	Introduction of a Computer System and history.	Introduction on MS Word, Class – 1	Security system on MS Word - Class 7(Security Tools)	Introduction on MS Excel - Class 1
Sun	What is Computer Technology?	MS Word - Class 2 (File save and retrieve, print, page setup and save as	MS Word - Class 8 (How to insert picture, chart, comments, foot note, header	MS Excel - Class 2 (File save and retrieve)

		option)	and footer etc.?)	
Mon	Computer Operation (Windows operating system)	MS Word - Class 3 (Search in the document and others)	MS Word - Class 9 (Work with Font, Paragraph, Bullet and numbering and graphics)	MS Excel - Class 3 (Edit the Document and interface)
Tue	Introduction on Software	MS Word - Class 4 (Edit the Document)	MS Word - Class 10 (Work with Borders and shading.	MS Excel - Class 4 (Work with simple math-1)
Wed	Introduction on Hardware	MS Word-Class 5(Customize the MS Word interface)	Column, Tabs, Auto Format etc.	MS Excel - Class 5 (Work with simple math - 2)
Thu	Introduction of Internet Browsing	MS Word-Class 6 (Page Setup, Table)	Project work	Project work

Day / Week	5 th	6 th	7 th	8 th
Sat	Security system on MS Excel	Introduction on MS Power	MS Power Point Presentation	About Anti Virus Application
	- Class 6 (Security Tools)	Point Presentation – Class -1	- Class 6 (Presentation - 3)	and Internet security system.
Sun	MS Excel - Class 7	MS Power Point Presentation	MS Power Point Presentation	Emailing and browsing
Sull	(Work with functions)	- Class 2 (Know the interface	- Class 7 (Presentation - 4)	system
		and others)		
Mon	MS Excel - Class 8	MS Power Point Presentation	Project work	How to download and upload
IVIOII	(How to format cell?)	- Class 3 (Preliminary presentation)		the Data
Tue	MS Excel - Class 9 (Work with graph & charts)	MS Power Point Presentation - Class 4 (Presentation - 1)	How to prevent the computer system from Virus, Spyware, Malware and Spam ware?	Practice
Wed	MS Excel - Class 10	MS Power Point Presentation	What is Internet? And How to	Project work
	(Work with graph & charts)	Class 5 (Presentation - 2)	work with it?	
Thu	Project work	Project work	Project work	Review & Certificate

Course No-15 Graphic design 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
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Sun• Changing the opacity & Fill Opacity of a layer • Changing the stacking order/ Arrange • Turning the visibility of layers on and off • Deleting /Duplicating /Aligning /Group Layer • Layer Mask and Clipping Mask • Layer Lock/Lock Transparent Pixel • Bilending Option • Clipping Mask • Filter - Type, Object etcother • simple objects with the clone stamp. Healing Brush. • Beauty Retouching.*Repositioning and resizing shapes *The Transform panel *Constraining a shape *Constraining a shape *Constraining a shape *Constraining a shape *Constraining a shape *The transform tools Introducing layers *Cutting and pasting objects *Repeating transformationsobject using Compound path Links • Arrange •Clipping Mask *Using the shape and transform tools Introducing layers *Cutting and pasting objects *Repeating transformationsobject using Compound path Links • Arrange *Clipping Mask *Pattice with projectMon• Filter - Type, Object etc • The transform tool - Ctrl + T • Free Transform • Understanding the importance of modifiers. • Keys in every tool: Shift, Alt, and Control. • Multiple Undo's with The History Panel.How to using Pen tool. Path Selection tool and path palette • Path Save/rename/ clipping options • Background and Foreground color fill • Image resizing • Practicing Single layer and MultiLayer • Clipping Path*Exploring the *Appearance panel *Changing colors *Adding effects Using *Live Paint Adding a symbol *Creating a color group *Using the Color panel *Adding Pantone colors	Sat	 Introducing with Graphic Design Photoshop interface overview Screen Mode Zoom in & Out Document Setup Document Pan Color Apply Selection Basic 	An introduction to Color Correction. Color Adjustment Layers. • The Properties Panel. • Hue/Saturation. • Color Balance. • Brightness/Contrast. Fixing contrast with Brightness / • Contrast. Fixing color casting with Color • Balance. Fixing the white and black points with Level's auto option. Adjusting the opacity of a color • adjustment layer. Curves Basics.	Exploring the interface * Choosing a workspace * Opening a file Using art boards * Changing your view * Zooming and scrolling * Using tools and panels * Exploring the Control panel * Working with panels and the dock	*Getting to know the Layers panel *Using layers to organize an illustration Selecting using the Layers panel *Creating new layers *Showing and hiding layers *Locking and unlocking layers *Rearranging layers *Moving items between layers *Remembering layers when pasting Creating a template layer
How to add an image to a blank canvas.How to using Pen tool. Path Selection tool and path palette*Exploring the *Appearance panel *Changing colors• The transform tool - Ctrl + T - Free Transform• Path Save/rename/ clipping options*Adding effects Using *Live Paint Adding a symbol• Understanding the importance of modifiers. • Keys in every tool: Shift, Alt, and Control. • Multiple Undo's with The History Panel.How to using Pen tool. Path Selection tool and path palette • Path Save/rename/ clipping options*Exploring the *Appearance panel *Changing colors *Adding a symbolMon• Understanding the importance of modifiers. • Keys in every tool: Shift, Alt, and Control. • Multiple Undo's with The History Panel.• How to using Pen tool. Path • Path Save/rename/ clipping • Background and • Image resizing • Practicing Single layer and MultiLayer • Clipping Path*Exploring the *Appearance panel *Changing colors *Adding a symbol *Saving swatches *Selecting *Creating a color group *Using the Color panel *Adding Pantone colors	Sun	Opacity of a layer • Changing the stacking order/ Arrange • Turning the visibility of layers on and off • Deleting /Duplicating /Aligning /Group Layer • Layer Mask and Clipping Mask • Layer Lock/Lock Transparent Pixel • Blending Option • Clipping Mask	• simple objects with the clone stamp. Healing Brush.	shapes *The Transform panel *Constraining a shape *Entering exact dimensions Selecting artwork *Using the shape and transform tools Introducing layers *Cutting and pasting objects	Clipping Mask Practice with project
Rectangular Marquee Tool, fixed size, move when creating selection, make center using Alt Key. • Elliptical Rectangular	Mon	 How to add an image to a blank canvas. The transform tool - Ctrl + T Free Transform Understanding the importance of modifiers. Keys in every tool: Shift, Alt, and Control. Multiple Undo's with The History Panel. An Introduction to the Rectangular Marquee Tool, fixed size, move when creating selection, make center using Alt Key. 	Selection tool and path palette Path Save/rename/ clipping options Background and Foreground color fill Image resizing Practicing Single layer and MultiLayer 	panel *Changing colors *Adding effects Using *Live Paint Adding a symbol *Saving swatches *Selecting the same color *Creating a color group *Using the Color panel	

Tue	Marquee Tool • Using Marquee to remove and fill color, Copy Area. • Marquee deselects, border, expand, smooth, contract, Feather. Using feather. • Inverse Selection. • Refining color Selection. • Changing Brush size for quick selection tool. • Select any color from a image (Project). • Rotate (Clockwise, counter clockwise, arbitrary).	Introduction to Re-touch tools and technique Basic Stamping Tool • Creating a Good Image * Lips & Hair Color * Design Editing Techniques	*Understanding the Pen tool Straight, curved and hinged lines *Tracing images *Creating a tracing template *Working with Image *Trace Using the Line, Pencil and Eraser tools Editing existing paths Adding and removing points Cutting and joining paths *The Shape Builder	*Text Based Logo • Symbol Based Logo
Wed	 Smart Objects vs. Regular Layers. Moving Images from one canvas to another. Shape Tool. Creating Smart Objects. Creating Normal Layers. Convert to Smart Object by right clicking in layer palette and pressing Convert to Smart Object. Convert to Normal Layer by right clicking in layer palette and pressing Rasterizing. 	Business Card Design * Visiting Card Design	*Adding tonal values with gradients *Customizing an existing gradient *Saving a gradient *Using the Gradient panel *Updating a gradient *Creating a pattern *Applying a pattern *Editing a pattern *Locating existing patterns Using the Color Guide	*Logo Design Detail *Practise in class
Thu	Layer Mask Make Small and do Mask	Poster Design * Flyer Design	*Formatting text *Paragraph formatting *Using paragraph and character styles *Editing styles Putting text on a path *Wrapping text *Putting text in a shape Creating outlines *Checking spelling *Using Find and Replace	Revision & Final Examination

Course No-16 Website design & outsourcing 8 (Eight) weeks training program

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Day / Week	1 st	2 nd	3 rd	4 th
Sat	Creating a HTML page	Table Cell spacing & padding,	Introduction to CSS	CSS Syntax
	HTML Tags	Changing Table Height & Width of	External Style Sheet	CSS Id & Class
		Table Elements	Internal Style Sheet	CSS Selectors
		Links	Inline Style	CSS1 vs CSS2 vs CSS3
		Anchor Tag	Multiple Style Sheet	The Cascade & Styling
	Paragraph & Text	HTML Lists & Blocks, HTML Forms	The letter-spacing Property	Line Height Property
G	Formatting	& Media, HTML Layout, HTML	The word-spacing Property	Background-URL
Sun	Lists	Form, Form Overview, Marquee Tag.	Text Align Property	Background-Position
	Horizontal Ruling lines	HTML Iframes	Background-Repeat	CSS Box Model
	HTML Color	Create Interactive Button	Specificity & Validating your	2 Column Layout
Mon	Background Color	List Background Using Images	CSS	3 Column Layout
WIOII		Make menu Button Using HTML code		CSS Border, Outline, Margin &
		& Image		Padding
	Specifying Font	HTML bdo tag,	CSS Floating & Positioning	CSS Align, Pseudo-class,
	Information	HTML span tag,	CSS Dimension & Display	Pseudo-element &Navigation
Tue	Formatting Tags	HTML5 Basics,		Bar, CSS Image Gallery,
		HTML5 Intro.		Opacity, Sprites & Media Types
	HTML Elements	HTML5 New Elements	CSS3 Round Corners	CSS3 Box Shadow & Text
	HTML Attributes	HTML5 Semantic	CSS3 Font-face	Shadow
Wed	HTML Headings	HTML5 Input Types		CSS3 Transitions, Transform &
		HTML5 Form Elements		Gradient
	HTML Paragraphs, HTML	HTML5 Form Attributes, HTML5	CSS3 Transparency	Introduction to Java Scripting
	Hyper links, HTML Table,	Media , HTML5 Video, HTML5	CSS3 Semi-transparency	Client and Server side scripting
Thu	Table & Data, Alignment Options	Audio		

Day / Week	5 st	6 nd	7 rd	6 th

Sat	JavaScript inserted into HTML pages, can be executed by all modern web browsers.	JavaScript Loop	Layout Planning	Final Build Up
Sun	JavaScript is easy to learn.	JavaScript Slide Customization	CSS Optimization	Project Summary
Mon	JavaScript Variable	JavaScript Slide Customization	CSS Optimization	Out Sourcing Project Class
Tue	Basic Function	PSD to HTML Convert	CSS Optimization	Out Sourcing Project Class
Wed	JavaScript Operators	Project Overview	Final Build Up	Out Sourcing Project Class
Thu	Form Validation	Project Overview	Final Build Up	Out Sourcing Project Class



Computer Networking

8 (Eight) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	 Networking Terminology Network Categories Standard Network Models Physical Network Topologies 	 IPV4 sub netting concept. Class – "C" sub netting. 	 Router Interfaces Viewing, Saving and Erasing Configurations Routing Basics The IP Routing Process 	 Open Shortest Path First (OSPF) Basics Rules of OSPF
Sun	 Logical Network Topologies Data Transmission Methods Media Access Methods Signaling Methods 	 Class – "B" sub netting. Sub netting practice 	 Configuring IP Routing in Our Network Dynamic Routing Distance-Vector Routing Protocols 	 Configuring OSPF Verifying OSPF Configuration OSPF DR and BDR Elections
Mon	Bounded Network Media • Unbounded Network Media • Noise Control • Network Connectivity Devices • Ethernet Networks • Wireless Networks	 Class – "A" Sub-netting. Sub netting practice 	 Cisco security process Port security Password security Console security Terminal security 	 OSPF and Loopback Interfaces Troubleshooting OSPF Practice of OSPF
Tue	 The OSI Model The TCP/IP Model The TCP/IP Protocol Suite IP Addressing 	 Variable Length Subnet Masks (VLSMs) Summarization Troubleshooting IPAdressing 	 Concept of remote access. Configure Telnet & SSH Practice of Telnet & SSH 	 Troubleshooting OSPF related problem. OSPF practice lab
Wed	 Default IP Addressing Schemes Create Custom IP Addressing Schemes Implement IPv6 Addresses Delivery Techniques 	 Switching Enable Static Routing Implement Dynamic IP Routing Virtual LANs Plan a SOHO Network 	 Routing Information Protocol (RIP) Verifying Your Configurations 	 EIGRP Features and Operation Using EIGRP to Support Larger Networks
Thu	 Assign IP Addresses Domain Naming Services TCP/IP Commands Common TCP/IP Protocols TCP/IP Interoperability Services 	 The IOS User Interface Command-Line Interface (CLI) Router and Switch Administrative onfigurations 	 Troubleshooting RIP related problem. RIP practice lab 	 Configuring EIGRP Load Balancing with EIGRP Verifying EIGRP

Day / Week	5 st	6 st	7 st	8 st
Sat	 Troubleshooting EIGRP related problem. EIGRP practice lab 	 VLAN Basics VLAN Membership Identifying VLANs 	 Extended Access Lists Turning Off and Configuring Network Services Monitoring Access Lists 	 Client Redundancy Issues Introducing First Hop Redundancy Protocol (FHRP)
Sun	 The Router Boot Sequence Managing Configuration Register Backing Up and Restoring the Cisco IOS 	 VLAN Trunk king Protocols (VTP) Routing between VLANs Configuring VLANs 	 Extended Access Lists Configure Extended Access Lists troubleshooting 	 Hot Standby Router Protocol (HSRP) Virtual Router Redundancy Protocol, Syslog SNMP
Mon	 Backing Up and Restoring the Cisco Configuration Using Cisco Discovery Protocol (CDP) Using Telnet Resolving Hostnames 	 VTP & DTP concept Configuring Catalyst Switches Configuring VTP 	 When Do We Use NAT? Type of Network Address Translation NAT Names 	 Introduction to Wide Area Networks Cable and DSL Cabling the Serial Wide Area Network
Tue	 Configuring EIGRP and OSPF Summary Routes Practice of OSPF & EIGRP 	 Per vlan Spanning Tree Protocol (PVSTP) PVSTP configure Ether Channels 	 How NAT Works Testing and Troubleshooting NAT 	 High-Level Data-Link Control (HDLC) Protocol Configure HDLC Protocol
Wed	 Concept of Layer 2 Switching Switching Services Spanning Tree Protocol (STP) 	 Perimeter, Firewall and Internal Routers Introduction to Access Lists Standard Access Lists 	 Why Do We Need IPv6? The Benefits and Uses of IPv6 IPv6 Addressing and Expressions 	 Point-to-Point Protocol (PPP) Virtual Private Networks GRE Tunnels
Thu	 Spanning Tree Protocol (STP) Configure STP in dis contagious network 	 Standard Access Lists Configure Standard Access Lists troubleshooting 	 How IPv6 Works in an Internetwork IPv6 Routing Protocols Migrating to IPv6 	Project Review & Exam

Computer Hardware Maintenance 8 (Eight) Weeks Training Program

Day / Week	1 st	2 nd	3rd	4 th
Sat	 Personal Computer Components System Unit Components Storage Devices Personal Computer Connection Methods 	 Physical CPU Types Processor Levels CPU Sockets and slots Install and Configure CPUs 	 Install and Configure Power Supplies Power Problems The Power-Good Signal and ATX Power Supplies 	 Diagnosis and Troubleshooting Professionalism and Communication Install and Configure Display Devices
Sun	 Operating Systems Windows User Interface Components Windows File System Management 	 Install and Configure CPUs Common CPUs problem CPUs over heat troubleshooting. 	 Power Management of UPS Troubleshooting & general maintenance of UPS 	 Computer Assembling General trick of PC assembling
Mon	 System board defined System board evolution Motherboard removal and Replacement 	 Identify Hard Disk type Install and Configure Hard Disk Devices Diagnostics and Troubleshooting hard disk. 	 System board defined System board evolution Motherboard removal and Replacement Troubleshooting the motherboard 	 Basic Input output system concept General configure of BIOS
Tue	 Troubleshooting the motherboard Identify motherboard component Motherboard installation process 	 Identify Hard disk boot error. Diagnostics and troubleshooting common HDD related error. 	 System board different ports & slots identify Different type of cable identifies. General error handling of ports, slots, cables. 	 Short brif of Operating System Benefit of using windows and linux OS

Wed	 Random Access Memory Defined Physical Memory Packaging Types of Memory Read-only Memory 	 Tools of the Trade Electrical Safety Environmental Safety and Materials Handling Perform Preventative Maintenance 	 Troubleshoot computer Mother Board. Maintain and Troubleshoot IC section Troubleshoot common problem of mother board 	 Prepare windows bootable media Concept of ISO file & how to use
Thu	 Managing memory Common Memory Problems Identify & troubleshooting common memory related problem. 	 Power Management Troubleshooting the Power Supply SMPS general maintenance 	 Maintain and Troubleshoot IC section Troubleshoot common problem of mother board General Cleaning of motherboard. 	 Installing process of Windows Tricks of windows installation General error handling of installation process.

Day / Week	5 th	6 th	7 th	8 th
Sat	 Windows System Management Tools Install and Configure Windows Common tools for windows management. 	 Hard Drive partition management. General troubleshooting for partition error. 	 Assembling of laptop. Replacing process of laptop accessories 	 Sharing process with cross connection General File share & configure security.
Sun	 Concept of windows drivers Installing windows drivers General troubleshooting of windows drivers 	 Concept of MBR Concept of GPT General error handling of MBR & GPT 	 Concept of Data backup Different tricks to take backup Backup tools identification and use. 	 Security Fundamentals Security Protection Measures Data and Physical Security Wireless Security
Mon	 Install Microsoft Windows Upgrade Windows Add Devices to Windows Optimize Windows 	 Internet Technologies Create Network Connections Install and Configure Web Browsers Maintain 	 Practical of data backup Restore process of backup data. 	 Install and Configure Security Measures Maintain and Troubleshoot Security Measures

Tue	 Operating System Utilities Maintain Microsoft Windows Troubleshoot Microsoft Windows 	 Troubleshoot Network Connections Laptop and Portable Computing Device Components. 	 Data recovery Data recovery tools Data recovery process of sudden system failure. 	 Concept of windows firewall Configure firewall port Common problem of firewall block.
Wed	• Use of different software for windows error handling	 Install and Configure Laptops and Portable Computing Devices. General cleaning and maintenance of laptop 	 Printer and Scanner Components Printer and Scanner Processes of installation. Printer toner refill and general maintenance 	 Troubleshooting Internet connectection error. Troubleshooting Browser error.
Thu	 Recover Microsoft Windows Network Concepts Network Communications Network Connectivity 	 De Assembling of laptop. Replacing process of laptop accessories 	 Network printer installation Printer & Scanner share process. 	Exam & review

Course No-19 Auto CAD Mechanical 8 (Eight) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	Introduction to Auto CAD, How to Work in a new file, Page Setup with Units and Area.	Familiarize with Chamfer Extend Zoom (All, center, Extents, Previous, scale, window, Real time).	What is Layer : Familiarize with Layer, New Layer, Layer on/off, Layer Freeze, Layer Lock.	Familiarize with: Hatch, Pattern, Hatch Scale, Gradient, Hatch edit.
Sun	How to draw Lines in different direction. How to draw Angle, Rectangle and Triangle.	How does the following commands works : Stretch, Scale, Break, Lengthen, Explode.	Familiarize with the tool bars up to 8 consecutive class.	Familiarize with: Point, Osnap (Node) & Some Mechanical drawing.
Mon	How to draw Circle, Ellipse, Polygon, polygon inscribed and circumscribed about circle.	Familiarize with By layer (color), By layer (line type), By layer (line weight).	Work with FPS (Foot Pound Second) System. Architectural- (1'-3.5"),	Introduction with Dimension: Horizontal Dimension Vertical Dimension.
Tue	How to draw Multi line, Poly line, Sp line, Different types of Line.	Some Mechanical drawing using command & tools up to 9 consecutive class.	Engineering - (1'-3½") Fillet, Fillet with Radius, Fillet without Radius.	Radius Dimension Diameter Dimension Linear Dimension
Wed	Dot line, Hidden line, Dash line, Centre line etc. Line type scale factor.	Some Mechanical drawing using the following commands : Array, Array Rectangular, Array Polar, Array Angular.	Some Mechanical drawing Using layers & different types of Hatch, Gradient.	Dimension Decimal Dimension Leader. Dim Scale, Dim Up.
Thu	Familiarize with some editing Tools Trim, Offset, Rotate, Mirror.	Erase / Delete, Undo Redone, Move, Copy , Copy (Multiple), Paste etc.	Familiarize with Grid : Grid on/off, Snap on/off, Grid Aspect, Snap Aspect.	Dimension Edit (Home, New, Rotate, Oblique, Dimension Tolerance (On/Off), Dim Tp, Dim Tm, Center Mark, Dimension, Dim center.

SatQuick Dimension, Aligned Dimension, Ordinate Dimension, Ordinate Dimension, Ordinate Dimension,How to add text in drawing D text, M text, Text Edit.How to show different view of an Isometric Drawing in the same window.Familiarize with Au Express Tools.SunBaseline Dimension, Continuous Dimension.Familiarize with : D t (Justify) Text Style.How to fix up Tool bar in Auto CADUses of Table, How create Table in Dra Drawing with show information In TableMonHow to match properties with other drawing's properties,Familiarize with : View ports (1, 2, 3 & 4 View ports).Inquiry –Distance, Area, Region, Object.Some Mechanical using Express ToolTueBlip mode, Redraw, Aligned & Some Mechanical drawingHow to draw Isometric drawing.How to Install & run Auto CAD.How to Install Print & How to take print in Auto CAD - I.Some Mechanical drawing.Some Isometric drawing of Mechanical drawing.Some Isometric drawing of How to Install Auto CADHow to Install Print & How to Install Print & How to Install Print & How to Install Print	uto CAI
SunContinuous Dimension.D t (Justify) Text Style.Auto CADcreate Table in Dra Drawing with show information In TableMonHow to match properties with other drawing's properties,Familiarize with : View ports (1, 2, 3 & 4) View ports).Inquiry –Distance, Area, Region, Object.Some Mechanical using Express TooMonBlip mode, Redraw, Aligned & Some Mechanical drawingHow to draw Isometric drawing.How to Install & run Auto CAD.How to Install Print & How to take print in Auto CAD - I.	
Monproperties with other drawing's properties,View ports (1, 2, 3 & 4 View ports).Region, Object.using Express Too using Express TooMonBlip mode, Redraw, Aligned & Some Mechanical drawingHow to draw Isometric drawing.How to Install & run Auto CAD.How to Install Print & How to take print in Auto CAD - I.	awing & ving
Tue Aligned & Some Isometric drawing. CAD. & How to take print in Auto CAD - I.	
Some Mechanical drawing Some learnetric drawing of How to Install Auto CAD How to Install Print	
Wed Some Mechanical drawing. Some Isometric drawing of Mechanical parts. How to Install Auto CAD Express Tools & run. How to Install Print Wed Mechanical parts. Express Tools & run. How to take print o Auto CAD - II.	
Thu Some Mechanical drawing. Some Mechanical drawing using Text & Dimension. Some Mechanical drawing Using Text & Dimension. Some Mechanical drawing Using Text & Dimension.	

Course No-20 Auto CAD Civil 8 (Eight) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	Introduction to Auto CAD, How to Work in a new file, Page Setup with Units and Area.	Work with FPS (Foot Pound Second) System. Architectural- (1'-3.5"), Engineering - (1'-3½") Fillet, Fillet with Radius, Fillet without Radius.	Some Civil drawing using the following commands : Array, Array Rectangular, Array Polar, Array Angular.	Introduction with Dimension: Horizontal Dimension Vertical Dimension Linear Dimension.
Sun	How to draw Lines in different direction. How to draw Angle, Rectangle and Triangle.	How to draw Multi line, Poly line, Sp line, Different types of Line.	Familiarize with Chamfer Extend Zoom (All, center, Extents, Previous, scale, window, Real time).	Dim Scale, Dim Up. Radius Dimension Diameter Dimension.
Mon	Some Civil drawing Using layers & different types of Hatch, Gradient.	Dot line, Hidden line, Dash line, Centre line etc., Line type scale factor.	Familiarize with Grid : Grid on/off, Snap on/off, Grid Aspect, Snap Aspect	Dimension Decimal Dimension Leader Dimension Edit (Home, New, Rotate, Oblique).
Tue	Familiarize with By layer (color), By layer (line type), By layer (line weight).	How does the following commands works : Stretch, Scale, Break, Lengthen, Explode.	Erase / Delete, Undo Redone, Move, Copy , Copy (Multiple), Paste etc	Dimension Tolerance (On/Off), Dim Tp, Dim Tm, Center Mark.
Wed	Familiarize with : Point, Osnap (Node) & Some Civil drawing.	Familiarize with: Hatch, Pattern, Hatch Scale, Gradient, Hatch edit.	What is Object snap & how Does End point, mid point, Center, Quadrant, Intersection, perpendicular Etc. works.	Quick Dimension, Aligned Dimension, Ordinate Dimension,
Thu	How does Lengthen, Block, Insert, Divide etc. Commands works.	Familiarize with some editing Tools Trim, Offset, Rotate, Mirror.	Familiarize with the tool bars up to 8 consecutive class.	Baseline Dimension, Continuous Dimension. Dimension, Dim center.

Day / Week	5 th	6 th	7 th	8 th
Sat	How to match	What is Layer:	Some Civil drawing (Floor	Column Layout of Bldg.
	properties with other	Familiarize with Layer, New	Plan etc.) using Dimension.	with GB, using grid lines .
	drawing's properties,	Layer, Layer on/off, Layer		
	Blip mode, Redraw.	Freeze, Layer Lock.		
	Some Civil drawing using	How to add text in drawing	Familiarize with :	Familiarize with :
Sun	command & tools up to 9	D text, M text,	D t (Justify)	View ports (1, 2, 3 & 4
	consecutive class.	Text Edit.	Text Style.	View ports)
	Aligned & Some Civil	Dwg. of Full Column	Some Isometric drawing of	Some Civil drawing
Mon	drawing	Section with reinforcement.	Civil Materials (Bricks, Ornamental Bricks etc.)	Using Text & Dimension.
	How to draw Section of	How to show different view	How to fix up Tool bar in	Some Civil drawing using
Tue	Column, Beam, Roof etc.	of an Isometric	Auto CAD.	Text & Dimension.
		Drawing in the same indow.		6
Wed	Familiarize with Auto CAD	How to draw Front	Inquiry – Distance, Area,	How to Install & run Auto
wea	Express Tools.	Elevation of Bldg.	Region, Object.	CAD.
	Uses of Table, How to	How to draw Sectional	How to Install Printer	How to Install Printer &
Thu	create Table in Drawing &	Elevation of a Bldg.	& How to take print or plot	How to take print or plot in
1 110	Drawing with showing		in Auto CAD - I.	Auto CAD - II.
	information In Table.			67 //

DIST

Course No-21 Technical school management 1 (One) Weeks Training Program

Day / Week	1 st
Sat	Concept of personnel management. Concept
	of production management. Observation of official works.
Sun	Concept of marketing management. Concept of quality control. Observation of practical training.
Mon	Concept of maintenance management. Behavior with the staff & customer. Observation of production work.
Tue	Performing of financial management. Product costing procedure. Observation of production work.
Wed	Performing of product costing. Concept of production drawing.
Thu	Observation of general, material and shop floor storing system.

Course No-22 Workshop Management 1 (One) Weeks Training Program

Day / Week	1 st		
Sat	Concept of production Management. Concept of personal management.		
	Observation of practical training.		
Sun	Concept of maintenance management. Concept of quality control.		
Suii	Observation of production works.		
	Concept of on the job training.		
Mon	Communication & customer dealings.		
WIOII	Observation of on the job training.		
	S		
Tue	Concept of financial management.		
	product costing procedure.		
	Observation of production work.		
Wed	Concept of SWOT analysis. Concept of marketing management.		
	Observation		
Thu	of general, Tools, materials,		
Thu	and product storing		
	system.		



Course No-23 Interpreting Technical Drawing 2 (Two) Weeks Training Program

Day / Week	1 st	2 nd
Sat	Alphabet of lines & use of lines. Types of drawing. Types and rule of Dimensioning.	Overview of development drawing. Practice of development drawing.
Sun	Projection & scale of drawing. Dimensioning practice on flat work pieces.	Overview of assembly drawing. Practice of assembly drawing.
Mon	Isometric drawing Practice. Draw the ortho-graphic view from isometric drawing.	Working and assembly detail drawing Practice. Preparing parts list according to the working and assembly drawing.
Tue	Overview of sectional drawing with Dimensioning.	Overview of how to interpreting the working drawing.
Wed	Symbol of drawing & surface finishing designation.	How to interpreting the sectional drawing.
Thu	Tolerance, allowance limits & fits.	How to interpreting the assembly drawing. Revision and Certificate distribution.



Course No-24 Spoken English 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	English Greetings - Good morning - Good evening - Good afternoon - Good night etc Uses of greetings.	 Conversation Command & Request Example stop, please stop. 	 Question words Conversation Review 	 Pass a comment Response to the comment
Sun	Polite phrases & selected words to cover courtesy in English culture & uses of those words.	 Conversation Finding new words. 	- Transformation of sentences.	- Conversation
Mon	To express gratefulness. Response to thanks. To draw attention of other people.	 Alternative words. Similar sentences. 	- Helping words (can, could, may, might, must, should, would, etc.)	 Asking time Address, telephone number.
Tue	Excuse me, impolite & Polite	Review Conversation Conception of Tense.	English jokes Conversation Alternative words.	Telephonic conversation Review
Wed	Conversation Exclamation: Marvelous, How sad, How terrible, How sweet etc.	Review Conversation Change of Tense Alternatives	Review Conversation Alternatives	Business matters Asking Direction Shopping conversation etc
Thu	Short form of speech: Just coming - O. K. - As you please - Why not? - Doesn't matter etc.	Conversation Positive , Negative & Interrogative.	Self-expression. Question /Answer. Free conversation.	Need based conversation Problem solving Daily matters.

Course No-25 House Keeping 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	Introduction of the house keeping course.	Cleaning, operation and maintenance of washing machine.	Introduction about cultural activities.	Value education
Sun	Objective to studies of this course.	Cleaning, Operation and Maintenance of Refrigerators.(Frost, no- frost, Deep Fridge)	Personal health care and personal protective equipment (PPE)	Language and communication skills, Food name, Fruit name.
Mon	House keeping work plan. Daily, Weekly, Monthly Work plan	Electric Iron, cleaning, operation, maintenance and Ironing practice.	Bath room cleaning	Number counting day, week & Months name (English and Arabic)
Tue	Bedroom Keeping. Bedrooms items, cleaning and interior arrangement.	Cleaning, operation and maintenance of Electric Oven, Micro Oven, Juice maker, Toster Machine, Rich Coker.	Maintenance.	Arabic learning in daily necessary words and simple Arabic spoken practice
Wed	Drawing room Keeping, Drawing room items, cleaning and interior arrangement.	Cleaning, operation and maintenance of Gas Oven, Coffee maker, Water heater machine.	Wash room cleaning and maintenance	Migration Information: Passport, Visa, Contract paper.
Thu	Dinning room Keeping. Dinning room items, cleaning and interior arrangement.	Dish washer, Deep firer, Grinder Blender, Hairdryer machine and other house hold appliance.	Toilet cleaning and maintenance	Bank Account, Money Exchange, Money sending procedure, Medical Cheek up procedure.

Course No-26 Tailor made course AS per requirement

Course No-27 Plumbing (Pipe fitting & sanitary works) 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	Introduction & identification of plumbing. Tools & fittings.	Applications, uses care, repair & maintenance of Tap & Valve.	Hot & cold water line installation practices.	Dress bath & water heater installation connection.
Sun	Identification of plumbing. Tools & fittings.	Repair & maintenance of Tap & Valve.	Hot & cold water line installation practices.	Stack system (soil & waste) Gas Burner maintenance.
Mon	Uses of Tools & Fittings measurement practice of (Metric & English.)	Applications, uses care, repair & maintenance of centrifugal pump.	Bath Tap installation. Mixture Tap connection.	Drain system. Septic tank design. Plumbing symbol. Working drawing reading.
Tue	Practice of measurement, Filling & Sawing practice.	Glove, Ball, Gate & other's valves identification repair & maintenance.	Sink installation & maintenance. Lead joint practice.	Drain system. Septic tank design. Plumbing symbol. Working drawing reading.
Wed	Introduction about die stock. Thread cutting practice.	Cistern identification & maintenance.	Tank hole cutting known about under ground reserve.	Leak test, Blockage Cutter equipment & their use Bracket making.
Thu	To perform about pipe specification. Thread cutting practice.	Commode installation with flashing system.	Water main connection with socket & ferrule screw.	PP-R pipe joint practice.

Course No-28

Fire Fighting (Water pipe line) 2 (Two) Weeks Training Program *****

Day / Week	1 st	2 nd
Sat	 Introduction about Fire Fighting Water pipe line. Identification of plumbing & five fighting tools & fittings 	 Application, uses, care, repair & maintenance of valves.
Sun	fire fighting tools & fittings.Uses of tools & fittings.	Thread cutting practice.
Mon	Measurement practice (British & Metric)	Thread cutting practice.
Tue	 Identification of different types of pipes and their uses. To perform about pipe specification. 	 Pipe joint practice.
	 Pipe cutting practice for fire fighting. 	 Practice on template.
Wed	 Introduction and identification about flange, gasket and their uses. 	 Pipe bending practice.
	 Identification and uses of various types of valves. 	 Identification of different types of pumps.
Thu	 Identification about rectified valve and flushing valve, specially used for fire fighting line. 	 Application, uses, care, repair and maintenance of centrifugal pumps.

Course No-29 Steel fixer/ Rod binding 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3rd	4 th
Sat	Introduction about. Steel fixture / Rod Binding work. Tools identification and their function.	Triangle and round Tie making.	Crank rod. Concave convex and Zig - zug Tie making.	Beam binding practice Sunshade with Lintel binding practice.
Sun	Tools identification and their application, care and maintenance.	Top stand, round and Square tie making with covering.	Pistol stirrup. "S" type tie. Rectangle lap square tie.	Slab binding practice
Mon	Measurement on English and metric system Relation between mm, cm and inch. Measurement practice on different types of object.	Top stand, round and Square tie making with covering.	Fan hook Lap square tie Circle lap try angle tie making.	Column Rod and tie making then binding practice (square & rectangle) by using 20 gauge G.I. wire)
Tue	To know about construction rod and their sizes. MS rods straighten practice. To know about construction object.	Pentagon tie Hexagon tie Heptagon tie Octagon tie Making.	Junction tie Star tie – 01 Star tie – 02 making and Rod lapping practice.	Column Rod and tie making then round binding practice by using 20 gauge G.I. wire)
Wed	Rod cutting practice according to drawing. Find out cutting length of any tie and stirrups. Hook making.	Trapezium tie. "L" type Tie "T" type tie making.	Binding practice by various position. Base binding practice.	Revision on previous work.
Thu	Square tie making Rectangle tie making.	"U" type tie. W type tie Chair tie making.	Column Binding practice.	Practical & Viva Test. Certificate Distribution.

Course No-30 Shutter Carpenter 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	Introduction about shuttering carpenter work. Tools identification and their function.	Column kicker making on 90 "45" and 60 ⁰ Angle cut. Grade beam section making. "L" beam section making.	"T" beam making as per drawing and R.C.C. wall shuttering leveling and braising	Stair removing and re-fixing
Sun	Measurement on English and metric system. Relation between mm, cm, and Inch. Measurement practice on different types of object.	"T" beam (plane) and T beam (corridor) section making.	Column shuttering practice . Grade beam shuttering practice. Grade beam one side making on floor by completing supporting and braising.	Slab removing and leveling.
Mon	Recognizing of Timber and nail. Hand saw sharpening. And teeth setting by teeth setting pliers.	Base/ Foundation making check by # 90 [°] corner # Properly setting with braising # Use sprit level and plum bob # Column layout practice and setting line nail.	Lintel with sunshade shuttering practice. Drop wall shuttering practice.	Slab removing, reaffixing and level checking.
Tue	Wood cutting practice on 90 ^o and 45 ^o Angle by using wooden saw and try square.	Erect layout, column and cheek making by pink # Vertically # 90 ⁰ corners. # Proper setting and braising # Location and Numbers of plum bobs.	To know about shuttering object To know about SFT, CFT and RFT.	Slab removing, reaffixing and level checking.
Wed	Rod cutting practice according to drawing.	Erect layout, column and cheek making by pink # Vertically # 90 ^o corners. # Proper setting and braising # Location and Numbers of plum bobs.	Revision on previous work done.	Revision on previous work.
Thu	Find out cutting length of any tie and stirrups. Hook making.	Erect layout column making by nut and bolt. # Vertically 90 ⁰ corners. # Proper setting # Location and number of plum bobs.	Steel shutter fixing on base and column.	Practical & Viva Test. Certificate Distribution.

Course No-31 Masonry (Plaster, bricks & hollow blocks seating) 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	Introduction about masonry works. Tools identification & their function	Brick work with Motor. English Bond (10") L-type & U type.	Wall plaster practice & finishing.	L-type pillar plaster.
Sun	Measurement as English & Metric system.	Brick work with Motor. Stretching bond (5") U-type & plus type.	In side corner, Top level plaster practice & finishing.	Introduction about P.C.C & R.C.C work. Slump test.
Mon	Introduction about construction material. Brick soling.	Hollow Block work with Motor. L-type, plus type.	Out side corner, top level plaster practice & finishing.	Ceiling level by water level pipe. Sprit level Than plaster.
Tue	Measurement practice on different type of objects, leveling practice by water levels sprit level & Plumb bob.	Introduction about plaster. Motor mixing practice & wall plaster practice.	Square pillar plaster & finishing.	Slump test.
Wed	Layout practice by 3:4:5 method. Brick cutting practice. Bond practice without Motor.	Wall plaster practice. Introduction about Mixture and Vibrator Machine.	Hexagon pillar plaster	Revision on previous work.
Thu	Brick work practice without Motor. English Bond Flemish Bong. Heading Bong.	Introduction about Mixture and Vibrator Machine	Introduction about N.C.F.	Practical & Viva Test. Certificate Distribution.

Course No-32 Masonry (Tiles & marble stone fixing) 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3rd	4 th
Sat	Introduction about masonry works, tools identification & their function.	Introduction about wall tiles & floor tiles, wall plaster & tiles fixing (grouting)	Hexagonal pillar plaster & tiles fixing.	Marble stone fixing on wall
Sun	Measurement as English & metric system. Relation between mm. cm & inch. Measurement practice different types of object.	Tiles fixing without plaster by sprite level & thread.	"L" types pillar plaster & tiles fixing.	Marble stone fixing on floor & tiles fixing on floor.
Mon	Measurement practice different types of object.	Tiles cutting practice (90 ⁰ & 45 ⁰ angle)	Round type column plaster & tiles fixing.	Tiles fixing on floor.
Tue	Leveling practice by water level, sprite level & Plumb bob. Layout practice by 3:4:5 method.	Tiles fixing on wall (Inside corner)	Introduction about marble stone, granite. Marble stone fixing on wall.	Tiles fixing, together on wall & floor.
Wed	Introduction about plaster & plaster practice.	Tiles fixing on wall (Outside corner)	Marble stone cutting practice & design.	Revision on previous work.
Thu	Wall plaster practice & finishing.	Square pillar plaster & tiles fixing.	Marble stone fixing on floor	Practical & Viva Test. Certificate Distribution.

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Course No-33 Masonry (Mosaic, tiles, marble stone & ceramics brick fixing) 8 (Eight) Weeks Training Program

Day / Week	1 st	2 nd	3rd	4 th
Sat	Introduction about masonry works, tools, identification and their function.	Brick work with Mortar. English bond (10"). "L" and "U" type wall.	Wall plastering practice and finishing.	Tiles fixing without plaster by using try-square, spirit level. (Outside corner)
Sun	Measurement as English & metric system.	Brick work with Mortar. Stretching bond (5"). "U" type, plus type wall and hollow block.	Wall plastering practice by using ruler, plumb bob, try-square and spirit level.	Introduction about marble stone, granite and fixing in flat wall.
Mon	Brick soling practice.	Introduction about hollow block, layer practice with Mortar.	Introduction about tiles. Wall plastering and tiles fixing with grouting.	Marble stone fixing on wall. (outside corner).
Tue	Measurement practice on different types of objects. Leveling practice by water level, sprit level & plum bob.	Introduction about plaster. Mortar applying in right side.	Tiles fixing without plaster by using spirit level, thread in flat wall.	Marble stone fixing on wall. (Inside & outside corner).
Wed	Layout practice by 3:4:5 methods. Brick bond practice without Mortar.	Motor applying in left side.	Tiles fixing without plaster by using try-square (Inside corner)	Marble stone fixing on floor by using Mortar.
Thu	Brick work without Mortar. English bond. Flemish bond. Heading bond.	Motor applying in right and left side.	Tiles fixing without plaster by using try-square, spirit level. (Inside & outside corner)	Floor tiles fixing by using Mortar.
Day / Week	5 th	6 th	7 th	8 th
Sat	Tiles cutting practice (90° and 45° angle).	Marble cutting practice and design.	Introduction about fare bricks and fixing.	Use of mixture machine and vibrator machine.
Sun	Square pillar plaster practice and tiles fixing.	Introduction about mosaic floor. Glass & Pattern	Various types of fare bricks and fixing.	Tiles fixing on wall and floor together.

		stone setting.		
Mon	"L" type pillar plaster practice and tiles fixing.	Introduction about mosaic mixing and floor casting.	Brick pointing practice and plaster pointing practice.	Mosaic floor cutting by hand and machine.
Tue	Hexagonal pillar plaster practice and tiles fixing.	Mosaic practice on wall.	Ceiling level by water & spirit level and plaster practice.	N. C. F practice.
Wed	Round column plaster practice.	Introduction about R.C.C and P.C.C work.	Ceiling plastering practice.	Revision on previous work.
Ths	Round column plaster practice and tiles fixing.	Slump test.	Ceiling plastering practice and finishing.	Practical & Viva Test. Certificate Distribution.

Course No-34 Painting (Building & spray) 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3 rd	4 th
Sat	Introduction about building painting course. Tools identification and their application. Safety precaution of painting works.	Old wall painting preparation and application of primer coat.	Introduction about spray painting machine and equipments. Such as compressor machine and spray gun etc.	Preparation of cleaning practice Door and window of building. Primer coat and putty practice.
Sun	Preparation of sheet metal surface for hand painting practice by painting brush.	After cleaning and application of primer coat old wall Putting practice.	Spray painting practice on sheet metal surface.	Enamel putty finishing and application of Enamel paint.
Mon	Preparation of outside wall for application of durecem painting and practice of durecem painting.	After cleaning and application of primer coat new wall putting practice.	Spray painting practice on new and old wall.	Cleaning system of chemical and description of powder paint Staving paint and Epoxy paint.
Tue	Durecem painting practice and purring by water new and old wall.	Old wall painting practice.	Spray painting practice on sheet metal production work.	Length area and volume calculation paint estimating of wall.
Wed	Durecem painting practice	New wall painting practice.	Preparation of inside wall for application of distemper painting and practice of distemper painting.	Revision of painting work.
Thu	Inside New and Old wall putty making and practice.	Check putting preparation and final painting and finishing of the old and new wall.	Practice of distemper painting.	Test and certificate distribution

Course No-35 Painting (Metal spray) 4 (Four) Weeks Training Program

Day / Week	1 st	2 nd	3rd	4 th
Sat	Introduction about metal spray painting course. Identification of tools and equipments. Safety precaution of painting works.	Spray painting practice on sheet metal / wood surface.	Paint removing. Manual and chemical.	Checking putty application on job
Sun	Preparation of sheet metal surface for hand painting practice by painting brush.	Spray painting practice on various types of production like sheet meter and wood.	Rust removing / Cleaning Application primer coat.	Preparation for painting. Enamel and hammer paint.
Mon	Enamel putty making and practice on board putty removing procedure by flat scraper.	Enamel putty practice on final production job like sheet metal and wood.	Enamel putty making application 1 st coat.	Surface preparation of wood furniture. Under coat and putting.
Tue	Introduction about spray painting and air compressor machine. Setting and uses of spray gun. Pressure checking and reading.	Enamel putty practice on final production job.	Enamel putty application 2 nd coat by Crouse wise.	Putty finishing. Application enamel and hammer paint.
Wed	Preparation of sheet metal surface for spray painting practice.	Measurement practice British and metric length area and volume calculation paint estimating.	Putty finish. Enamel paint mixing and application 1 st coat.	Final finishing paint surface
Thu	Sheet metal surface spray painting practice.	Metal surface spray painting practice.	Putty finish. Enamel paint mixing and application 2 nd coat.	Test, Revision & certificate distribution



SHORT TRAINING PROGRAMME

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