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IT Scholarship Project (Round-41)

Electrical Trade



IDB-BISEW Vocational Training Program

Electrical Trade

Course Duration: 24 Weeks or 120 days or 720 hours

Week	Theory	1 st Day	2 nd Day	3 rd Day	4 th Day	5 th Day	6 th Day
	Practical						
1	Theory	Safety rules & precautions. Electrical shop safety precautions & Electrical shock treatment	Knowledge about Wires and cable joint	Knowledge about Electrical symbol	Knowledge about many kinds of circuit	-	-
	Practical	Identification and apply of Electrical hand tools.	Wires and cable joint practice	Wires and cable joint practice(continuation) *Measurement of electrical meters & devices	Measurement of electrical meters & devices (continuation) *Bulb connection series two, three, four etc	Bulb connection Parallel one, two, three, four etc	Bulb connection series & parallel combined circuit.
2	Theory	Knowledge about current, voltage, power.	-	-	-	-	-
	Practical	Measurement of electrical current, voltage & power.	Different kinds of bulb connection.*Fan connection with Regulator.	Different fan connection, 5A socket & calling bell connection.	Tube light, starter, and blast testing & tube Light connection.	15A tumbler socket, combined socket connection.* Two-intermediate &gang switch connection 2-5 different places.	Introduction about analog & digital AVO meter. Apply of Analog &digital clamp meter.
	Theory	-	Knowledge about batten & channel wiring	knowledge about A.C generator	-	Introduction about hand drill & grinding machine.	-



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ভোকেশনাল ট্রেনিং (রাউন্ড-২১)

অনলাইনে আবেদন করুন

3	Practical	Knowledge about wire sizes. Apply of meager & insulation resistance test practice.	Batten & channel wiring practice.	A.C generator, battery connection & practical charging solar cell system.	Diagram of electrical plan, surface conduit wiring, concealed conduit wiring, conduit sizes.	hand drill & grinding machine connection.	Shared pole motor, Electric Iron, Auto Light controller connection practice.
		Class 13	Class 14	Class 15	Class 16	Class 17	Class 18
4	Theory	Knowledge about energy meter (3-phase)	Knowledge about 1-phase energy meter.	Knowledge about 1-phases motor.	Knowledge about 3-phase motor	Knowledge about CKT breaker.	-
	Practical	3- phase,3-wire & 3-phase 4-wire energy meter connection	Ammeter, voltmeter, frequency meter & 1-phase energy meter connection.	1- Phase motor, fan connection, universal motor, capacitor starter & run motor connection.	Change over switch, 3-phase motor connection, push button switch, magnetic starter, rivers forward switch ,Auto star delta starter (continuation) *Identification of ckt breaker, 1-phase & 3- phase motor connection.	Change over switch, 3- phase motor connection ,push baton switch, magnetic starter, rivers forward switch ,Auto star delta starter (continuation) *Identification of ckt breaker, 1-phase & 3- phase motor connection.	15A socket maintain by 15A switch with CKT combined socket connection with CKT breaker. verifies CKT connection
5	Class 19	Class 20	Class 21	Class 22	Class 23	Class 24	
	Theory	Basic idea about 1-phase pump motor.	Knowledge about 3-phase pump motor.	-	Different part of pump motor & concept.	Knowledge about trouble shooting of pump motor & repairing.	Safety precaution about electrical hand tools & equipment.* knowledge about data sheet of ceiling fan.
6	Practical	1- Phase pump motor connection practice 3-wire system.	3- Phase pump motor connection practice 4-wire system.	3- phase pump motor star &delta connection practice	Different parts of pump motor disassemble& assemble practice.	Practice: Bearing , wire ,water seal, short circuit winding	Identification of electrical hand tools & equipment. *Different types of ceiling fan.
	Class 25	Class 26	Class 27	Class 28	Class 29	Class 30	
6	Theory	knowledge about different types of forma					
	Practical	Practice of ceiling fan basket winding.	Practice of ceiling fan basket winding. (continuation)	Practice of ceiling fan basket winding. (continuation)	Practice of ceiling fan chain winding.	Practice of ceiling fan chain winding. (continuation)	Practice of ceiling fan chain winding. (continuation)

			Class 31	Class 32	Class 33	Class 34	Class 35	Class 36
7	Theory	knowledge about super enamel wire sizes (0.05mm-2.99mm)				knowledge about Pedestal fan		
	Practical	Pedestal fan rewinding practice for four pole. (chain) continuation	Pedestal fan rewinding practice for four pole. (chain) continuation	Pedestal fan rewinding practice for four pole.(basket) continuation	Pedestal fan rewinding practice for four pole.(basket) continuation	Pedestal fan rewinding practice for four pole. (basket) continuation	Pedestal fan rewinding practice for four pole. (basket) continuation	
		Class 37	Class 38	Class 39	Class 40	Class 41	Class 42	
8	Theory	Knowledge about blower fan rewinding.			Knowledge about different types of capacitor.	Introduction of data sheet of 1-phage motor diagram.		
	Practical	Blower fan four pole rewinding practice. (continuation)	Blower fan four pole rewinding practice. (continuation)	Blower fan four pole rewinding practice. (continuation)	Practice on running coil& starting coil connection.	1-phase motor rewinding for basket(two pole)	1-phase motor rewinding for basket(two pole) continuation	
		Class 43	Class 44	Class 45	Class 46	Class 47	Class 48	
9	Theory			Introduction of data sheet of 1-phase motor diagram.				
	Practical	1-phase motor rewinding for basket(two pole) continuation	1-phase motor for chain(four pole) continuation	1-phase motor for chain(four pole)	1-phase motor rewinding for chain(four pole) continuation	1-phase motor for chain(four pole) continuation	1-phase motor rewinding for chain(four pole) continuation	
		Class 49	Class 50	Class 51	Class 52	Class 53	Class 54	
10	Theory							
	Practical	1-phase motor rewinding for chain(Two pole)	1-phase motor for chain(four pole)	1-phase motor for chain(four pole) continuation	1-phase motor rewinding for Basket(four pole)	1-phase motor for Basket(four pole) continuation	1-phase motor rewinding for Basket(four pole) continuation	
		Class 55	Class 56	Class 57	Class 58	Class 59	Class 60	
11	Theory		Knowledge about centrifugal switch	Knowledge about capacitor start & run motor.	Knowledge about 3-phase induction motor		Knowledge about data sheet of 3-phase motor.	
	Practical	Motor opening & fevering practice	Split phase motor opening & starting coil & centrifugal switch connection.	Identification of capacitor starts & run motor.	3-phase motor opening, cleaning &	3-phase motor opening , cleaning & Insulating practice. (continuation)	3- Phase motor rewinding basket for	

					insulating practice.		two pole practice.
		Class 61	Class 62	Class 63	Class 64	Class 65	Class 66
12	Theory						Knowledge about data sheet of 3-phage motor.
	Practical	3- Phase motor rewinding basket for two pole practice. (continuation)	3- Phase motor rewinding basket for two pole practice. (continuation)	3- Phase motor rewinding chain for two pole practice.	3- Phase motor rewinding chain for two pole practice. (continuation)	3- phase motor rewinding chain for two pole practice. (continuation)	3- Phase motor rewinding basket for four pole practice.
		Class 67	Class 68	Class 69	Class 70	Class 71	Class 72
13	Theory						Instruction about running&
	Practical	3- phase motor rewinding basket for two pole practice. (continuation)	3- phase motor rewinding basket for two pole practice. (continuation)	3- phase motor rewinding chain for four pole practice.	3- phase motor rewinding chain for four pole practice. (continuation)	3- phase motor rewinding chain for four pole practice. (continuation)	
		Class 73	Class 74	Class 75	Class 76	Class 77	Class 78
14	Theory			knowledge about load R.P.M	knowledge about many kinds of multi-meter	Introduction about Universal Motor	
	Practical	3-Φ motor rewinding practice back side taping and bell testing	3-Φ motor connection and lead side taping practice	End plate fitting three phase motor final testing & R.P.M and load testing & calculation of voltage and current	Use of analog and digital Multi-meter and meager testing practice	Universal motor rewinding practice	Universal motor rewinding practice. (continuation)
		Class 79	Class 80	Class 81	Class 82	Class 83	Class 84
15	Theory		Knowledge about table fan		Introduction about Transformer		Knowledge about burnishing
	Practical	Two speed motor connection practice	Table fan rewinding practice	Table fan rewinding practice. (continuation)	Transformer rewinding practice	Transformer rewinding practice. (continuation)	Electric motor burnishing and review of the whole course
		Class 85	Class 86	Class 87	Class 88	Class 89	Class 90
16	Theory	Knowledge about traffic signal light	Knowledge about cable and wire	Knowledge about magnetic starter 220V, 440V, 24V etc		Knowledge about Float switch	Knowledge about 1-Φ and 3-Φ
		Traffic signal light control circuits	Cable and wire joint, soldering practice	Magnetic starter connection (Dol circuit) practice	Magnetic starter connection	Control of water pump by float switch	1-Φ and 3-Φ motor connection

		Practical	connection practice		(Dol circuit) practice for jogging switch		reverse & forward practice	
			Class 91	Class 92	Class 93	Class 94	Class 95	Class 96
17	Theory	Knowledge about thermal overload relay & timer	Knowledge about limit switch, micro switch, change over switch	Introduction of drill machine 1-Φ , 3-Φ, hand grinding machine connection practice	Knowledge about arc welding machine electrical connection	Knowledge about mig & Tig welding machine electrical practice	Knowledge about Auto manual generator operation system 1-Φ and 3-Φ	
		Auto star delta connection practice	PDB and generator connection by change over switch	Drill machine 1-Φ , 3-Φ, hand grinding machine connection practice	Arc welding machine concept practice	Mig & Tig welding machine connection practice	Generator operation system 1-Φ and 3-Φ, auto circuit of PDB & generator controlling practice	
	Practical							Class 97 Class 98 Class 99 Class 100 Class 101 Class 102
18	Theory		Basic electric, diode, rectifier, resistor, capacitor, transistor	Knowledge about UPS ,IPS & voltage stabilizer	Introduction of main distribution and sub distribution board	Knowledge about lathe machine connection diagram		
		Maintenance of generator lead acid battery	Soldering practice and measuring	UPS ,IPS connection &controlling of motor one and two place practice	MDB & SDB connection practice	Lathe machine controlling circuit practice	motor controlling from two side	
	Practical		Class 103 Class 104 Class 105		Class 106	Class 107	Class 108	
19	Theory	Introduction about Transmission and Distribution line	Knowledge about 11KV line i) Lighting arrester ii) H.T fuse line(50pp) iii) Dropout fuse holder	Knowledge about H.T meter and H.T switch gear 3-Φ & Transformer connection	Knowledge about Transformer 500KV		Ear thing arrangement	
		Different type of Insulator	11KV line i) Lighting arrester ii) H.T fuse line(50pp) iii) Dropout fuse holder practice	H.T meter and H.T switch gear 3-Φ & Transformer meter connection	Transformer 500KV practice	Transformer 500KV practice(continuation)	Ear thing arrangement and use of meager practice	
	Practical		Class 109 Class 110 Class 111		Class 112	Class 113	Class 114	
		Knowledge about L.T panel board,	knowledge about PFI panel board & LT& HT cable house wiring	knowledge about *HT & LT tools *AVOMeter & clam	*Tube light *Chock coil	*Switch board *Fan	Electric Iron *Pedestal fan	

		Theory	circuit breaker			meter *AV gy meter connection	*cable fult			
20	Practical	LT panel board CKT breaker practice	PFI panel board & LT& HT cable house wiring practice	*HT & LT tools *AVOMeter & clam meter *AV gy meter connection	*Tube light *Chock coil *cable fult Practice	*Switch board *Fan practice	Electric Iron *Pedestal fan Practice			
								Class 115	Class 116	Class 117
								Class 118	Class 119	Class 120
21	Theory	Electric water heater Electric soldering Iron	Electric Hair Drier Electric blower Coffee maker	Electric kettle Electric heater Electric room heater	Micro wave oven Rice cooker Pressure cooker		Exhaust fan Blower motor			
								Class 121	Class 122	Class 123
								Class 124	Class 125	Class 126
22	Theory	Air conditioner		Rearrange Emergency lamp Freeze			Electric hand blower Electric blender			
								Class 127	Class 128	Class 129
								Class 130	Class 131	Class 132
23	Theory	knowledge about electrical maintenance								
								Class 133	Class 134	Class 135
								Class 136	Class 137	Class 138
24	Practical	Electrical maintenance Works at machine shop	Electrical maintenance on general store	Electrical maintenance at automobile section	Electrical maintenance at hostel building.	Electrical maintenance at hostel building. (continuation)	Electrical maintenance at generator room.			
								Class 139	Class 140	Class 141
	Theory									
								Class 142	Class 143	Class 144
	Practical	Electrical maintenance at Ancillary section	Electrical maintenance at sub-station.	Electrical maintenance at sub-station. (continuation)	Over head line maintenance	Electrical Appliance maintenance.	Electrical Appliance maintenance.			
								Class 145	Class 146	Class 147

		SECTION	(CONTINUATION)			(continuation)	
		Class 139	Class 140	Class 141	Class 142	Class 143	Class 144

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