



Vocational Training

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Intake Notice: IT Scholarship Project (Round-41) আবেদনের শেষ তারিখ: ২৬ ফেব্রুয়ারি ২০১৯ ক্লাস শুরুর তারিখ: ১৮ মার্চ ২০১৯ [Apply Now](#) ... [Read more](#)

IT Scholarship Project (Round-41)



Refrigeration & Air-conditioning Trade

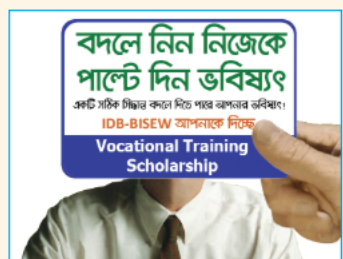


Week	Theory	1 st Day	2 nd Day	3 rd Day	4 th Day	5 th Day	
	Practical						
		Class 1	Class 2	Class 3	Class 4	Class 5	
1	Theory	Introduction to Refrigeration & Air Condition Unit, s heat, temperature & pressure.	Knowledge about refrigeration fittings.	Knowledge about copper tube.	Knowledge about copper tube.	—	
	Practical	Identification of common hand tool, measuring tool, special tools and materials uses in refrigeration and air conditioning works.	Identify of refrigeration fitting of different type of tube sizes.	Copper tube cutting, flaring, Soldering & Swaging practice.	Copper tube cutting, " T " Joint, Flair face & brazing practice.	Copper tube cutting, " L " Joint, "X" Joint flair face & brazing practice.	Cu Joi Lin bra
		Class 7	Class 8	Class 9	Class 10	Class 11	
2	Theory	Details Knowledge about refrigeration cycle.	Knowledge about analog and digital AVO Meter, ampere meter.	—	Knowledge about Electricity, current, voltage, and Resistance.	Introduction to Electrical circuit, series Ckt, Parallel Ckt.	
	Practical	Demonstration on operation of refrigeration cycle.	Application and use of analog & digital AVO meter, Amper meter, Multi meter, compound & High pressure gauge.	Application and use of analog & digital Multi meter, compound & High pressure gauge.	Measurement practice of voltage, current and resistance.	Series and parallel Ckt connection practice. To find out the voltage drop of effect through series.	Ele of Tu v C c
		Class 13	Class 14	Class 15	Class 16	Class 17	
3	Theory	Knowledge about single phase motor.	Knowledge about star and delta connection of three phase motor and magnetic contractor.	Knowledge about refrigerator compressor.	—	—	
	Practical	Identification of terminal compressor motor.	Motor starting without relay with relay & capacitor.	Demonstration on magnetic connection.	Star delta connection of 3 phase motor.	Identification of compressor parts.	C dc
		Class 19	Class 20	Class 21	Class 22	Class 23	
4	Theory	—	—	—	—	—	
	Practical	Charging oil checking	Checking	Checking procedure	Frost type refrigerator	Frost type	Ch



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ভোকেশনাল ট্রেনিং (রাউন্ড-২১)



অনলাইনে আবেদন করুন



		Identifying the electrical pumping and motor condition.	Identifying the electrical procedure relay, OLP, capacitor Thermostat.	Identify the electrical components of refrigeration and air conditioning.	Wiring practice.	refrigerator Wiring practice.	of r D s r
		Class 25	Class 26	Class 27	Class 28	Class 29	
5	Theory	Identification on non frost Refrigerator.	—	Knowledge about refrigerator timer.	Knowledge about defrost thermostat.	—	
	Practical	Identify the electrical Components used in non-frost refrigerator.	Demonstration of the function on non frost Refrigerator.	Checking procedure components of non frost refrigerator and timer setting.	Checking and testing heater, defrost Thermostat, thermal Fuse, Drain Heater, Lamp, fan switch.	Non frost refrigerator Electrical wiring practice.	r Ele
		Class 31	Class 32	Class 33	Class 34	Class 35	
6	Theory	—	—	—	—	—	
	Practical	Checking electrical wiring of a non frost refrigerator. Demonstration starting the refrigerator.	The function of compressor, expansion device and evaporator.	Classification of condenser, expansion device and evaporator.	Checking leak in a refrigerator repair leak if find. Evacuate and charge refrigerator procedure.	Checking leak in a refrigerator repair leak if find. Evacuate and charge refrigerator procedure.	Cl ref r be HC
		Class 37	Class 38	Class 39	Class 40	Class 41	
7	Theory	—	—	—	—	—	
	Practical	Checking procedure refrigerant in a frost type refrigerator.	Checking procedure refrigerant in a non frost refrigerator.	Trouble, causes of troubles and remedies of troubles of frost type refrigerator.	Trouble, causes of troubles and remedies of troubles of frost type refrigerator.	Trouble, causes of troubles and remedies of troubles of frost type refrigerator.	Ref f r
		Class 43	Class 44	Class 45	Class 46	Class 47	
8	Theory	—	—	—	—	—	
	Practical	To test leak on a chest type freezer, repair, the leak if any. Evacuate and charging appropriate refrigerator.	Repairing of door switch, Lamp holder and door seal.	Repairing of compressor coupling fan.	Refining of compressor.	Trouble, causes of troubles and remedies of troubles of chest type freezer.	Tro tr n trou ty
		Class 49	Class 50	Class 51	Class 52	Class 53	
9	Theory	Knowledge about water cooler.	—	—	—	—	
	Practical	Identify the electrical components used on water cooler.	Water cooler electrical wiring practice.	Check cooling and automatic operation. Factors to be considered for installation and operation.	Leak test, evacuating and refrigerant charging in a water cooler.	Leak test, evacuating and refrigerant charging in a water cooler.	Tro tr n trou
		Class 55	Class 56	Class 57	Class 58	Class 59	
10	Theory	—	—	—	—	—	
	Practical	Identify the electrical components used in beverage cooler.	Identify the different types of beverage cooler.	To check Electrical Wiring of a beverage cooler	To check coupling and automatic operation check amperage and	Leak test, evacuating and	eva refri

				starting procedure of beverage cooler.	voltage	refrigerant, charge in a beverage cooler	in
		Class 61	Class 62	Class 63	Class 64	Class 65	
11	Theory	knowledge about window type air conditioner	—	—	—	—	
	Practical	Identification the electrical components of a window type air Conditioner.	To check selector Switch and High, Low, Medium, compressor and line point Find out.	To check Blower motor Check Resistance.	Two check compressor motor, capacitor, and potential Relay.	Operated window type Ac for operation, check the effect of voltage, cooling and correct operation. Test for thermostat.	Operate to voltage and operation for
		Class 67	Class 68	Class 69	Class 70	Class 71	
12	Theory	—	—	—	—	—	
	Practical	Tow check Wiring of window type A.C Starting the window type A. Check Amper.	Leak test, evacuating and refrigerant charge window type AC.	Repairing of blower motor.	Repairing of compressor Motor.	Troubles, causes of Troubles and remedies of Troubles of window type AC.	Troubles of window type AC.
		Class 73	Class 74	Class 75	Class 76	Class 77	
13	Theory	Knowledge about split air conditioner.	—	—	—	—	
	Practical	Identify the component of split AC about specification.	Circuit to check for cooling capacity, FLA, voltage and other information.	Ampere checking starting & running time.	To check the electrical wiring of split type AC. Starting procedure.	To check the electrical wiring of split type AC. Starting procedure.	Check the electrical wiring of split type AC.
		Class 79	Class 80	Class 81	Class 82	Class 83	
14	Theory	—	—	—	—	—	
	Practical	To check the electrical wiring of split type AC 2(1.5 ton) capacity Starting the split AC.	To check the electrical wiring of split type AC indoor and outdoor unit.	Demonstration of split type AC installation and fittings.	Introduction to different types of split AC. Mention the advantage and disadvantage of split type AC.	Introduction to different types of split AC. Mention the advantage and disadvantage of split type AC.	refrigerant split type AC.
		Class 85	Class 86	Class 87	Class 88	Class 89	
15	Theory	Introduction on Refrigerant locked and open in the split type AC.	—	—	—	—	
	Practical	Refrigerant locked and open in the split type AC.	To check lock, evacuating and charging refrigerant of split type AC.	Repairing of split type AC.	Replacement of condenser cooling fan and compressor motor.	Troubles, causes of Troubles and remedies of Troubles of split type AC.	Troubles of split type AC.

		Class 91	Class 92	Class 93	Class 94	Class 95	
16	Theory	Introduction to water chiller.	Knowledge about heat temperature and pressure.	–	Knowledge about compressor, condenser & Evaporator.	–	
	Practical	Working principal of refrigeration cycle different cycle.	To explain heat, temperate and pressure. Measurement of Temp, pressure, humidity, capacity of the refrigeration plant.	To demonstrate refrigeration cycle of water chiller.	Compressor, condenser expansion device and evaporator used if = n water Chiller.	Identify about auxiliaries and accessories used in refrigeration cycle. Demonstrate of function and location in the cycle.	Id au acc in De fu lo
		Class 97	Class 98	Class 99	Class 100	Class 101	
17	Theory	–	–	–	–	–	
	Practical	Safety and controlling device used in the water chiller. Edification of refrigeration of refrigerant used in water chiller.	Refrigeration piping, condenser chilling chilled water piping, fitting and installation.	Leak test evacuation and charging of the plant.	Repairing of water Chiller.	Trobles, causes of trobles and remedies trobles of a water chiller.	Tro of rem of a
		Class 103	Class 104	Class 105	Class 106	Class 107	
18	Theory	Introduction of auto car AC.	–	–	–	–	
	Practical	Demonstration on the operation of refrigeration cycle auto car AC.	Identify the electrical components of an auto car AC check the blower fan.	Identify the electrical components of a auto car AC check the Blower fan.	Check for its proper funtion, relay, Battery fuse and other components.	Check AC and Blower switch, condenser fan, Regulator.	Cho con pre
		Class 109	Class 110	Class 111	Class 112	Class 113	
19	Theory	–	–	–	–	–	
	Practical	Check wiring of a auto car AC. Starting the auto car AC.	Air distribution system in auto car AC. Ducting duct installation.	Leak test evacuating and refrigerating charging.	Repairing auto car AC.	Trobles causes of trobles and remedies trobles auto car AC.	Tro of rem a
		Class 115	Class 116	Class 117	Class 118	Class 119	
20	Theory	Introduction to central AC plant. Demonstration of refrigeration and AC equipment.	–	–	–	–	
	Practical	Working principal of refrigeration Cycle.	Introduction pipe line fittings. Measurement of temp, humidity and air Velocity.	Refrigeration system function, clasificassion of each components Demonstration on each component.	Classification of compressor, compressor use in central AC plant.	Condenser types, condenser used in central AC plant.	Con cor in
		Class 121	Class 122	Class 123	Class 124	Class 125	
21	Theory	–	Demonstration on cooling	Expansion device used in central AC	Expansion device used in central AC plant,	–	Dem At

			tower.	plant, evacuators used in central AC plant.	evacuators used in central AC plant.		nan
	Practical	Pining connection with condenser, maintenance of condenser.	Operation of cooling tower.	—	—	Introduction of piping connection with the evaporator. Maintenance of evaporator.	Int cor the Ma e
		Class 127	Class 128	Class 129	Class 130	Class 131	
22	Theory	—	—	—	—	—	
	Practical	Demonstration the safety devices signals and switches used in central AC plant.	Air distribution system in auto car AC. Ducting duct installation.	Replacement of system components evacuating, charging and purging oil charging.	Identification of full charge. Starting up the central AC Plant.	Troubles, causes of troubles, remedies of troubles of central Ac plant.	Tro c n t cen
		Class 133	Class 134	Class 135	Class 136	Class 137	
23	Theory	—	—	—	—	—	
	Practical	Servicing and maintenance of a frost type Refrigerator.	Servicing and maintenance of a auto defrost type Refrigerator.	Servicing and maintenance of a No- defrost type Refrigerator.	Servicing and maintenance of a chest- type Refrigerator.	Servicing and maintenance and installation of water cooler.	Se mai in Bev
		Class 139	Class 140	Class 141	Class 142	Class 143	
24	Theory						
	Practical	Servicing and maintenance and installation of a window type AC.	Servicing and maintenance and installation of a Split type AC.	Servicing and maintenance and installation of a Auto car AC.	Servicing and maintenance and installation of a Water chiller.	Servicing and maintenance and installation of a Central AC.	a m in a