

FIRST TRAINING SEMESTER

Course Title		Mechanical Sciences	
Course Code	PH 101	Credits	5
Lecture Hours	4	Practical Hours	2
		Total Hours	6
Course Description			
The course includes the basic concepts of heat engines and combustion science, internal combustion engines, identification of water sources and how to treat them, as well as classification of pumps and compressors.			

Course Title		Engineering Drawings (1)	
Course Code	PO 102	Credits	2
Lecture Hours	0	Practical Hours	4
		Total Hours	4
Course Description			
A general introduction to technical engineering drawing, explaining the simple engineering processes with the explanation of free-hand drawing, drawing the isometric perspective.			

Course Title		Thermodynamics (1)	
Course Code	PO 103	Credits	4
Lecture Hours	4	Practical Hours	0
		Total Hours	4
Course Description			
This course describes ideal gas properties, ideal gas process at constant pressure, volume, temperature, suffocation, and adiabatic process.			

Course Title		Vocational Behavior	
Course Code	PO 104	Credits	4
Lecture Hours	4	Practical Hours	0
		Total Hours	4
Course Description			
The aim of the course is to know the definition of functional behavior - the importance of studying functional behavior - the aim of studying functional behavior and its characteristics (characteristics).			

Course Title		Industrial Safety	
Course Code	PO 105	Credits	2
Lecture Hours	2	Practical Hours	0
		Total Hours	2
Course Description			
This course explains the trainee's definition of accident types, workplace safety requirements, protection against electricity hazards, fire types and firefighting equipment.			

Course Title		Technical Mathematics	
Course Code	MA 108	Credits	4
Lecture Hours	4	Practical Hours	0
		Total Hours	4
Course Description			
Algebraic amounts- Equations of second order degree - Cartesian coordinates - static			

Course Title		English Language (1)	
Course Code	EN 130	Credits	3
Lecture Hours	2	Practical Hours	2
		Total Hours	4
Course Description			
Technical texts taken from a first course, in technical English book (1) - designed to furnish the trainer with terminology in specialization - teaching of extracts from the new horizon series book (5) together with exercises.			

Course Title		Introduction to Compute	
Course Code	CS 101	Credits	1
Lecture Hours	0	Practical Hours	2
		Total Hours	2
Course Description			
Computer (definition , consistence, and operation system - Windows- Microsoft, saving ,and typing reports- shifting through files , tables preparation			

SECOND TRAINING SEMESTER

Course Title		Mechanical Measurement	
Course Code	PM 155	Credits	3
Lecture Hours	2	Practical Hours	2
		Total Hours	4
Course Description			
curriculum aims to inform trainee knowledge of mechanical couples ,machining finishing accuracy, fits and tolerance system, dies ,temperature effects on dies, threading dimensions, special measuring tools .			

Course Title		Workshop Technology (2)	
Course Code	PM 151	Credits	4
Lecture Hours	2	Practical Hours	4
		Total Hours	6
Course Description			
curriculum aims to inform trainee knowledge of metal joining temporary and permanent, metal joining with electric and oxy- acetylene welding ,bras sing and rules of safety in welding .			

Course Title		Engineering Drawing (2)	
Course Code	PO 166	Credits	2
Lecture Hours	0	Practical Hours	4
		Total Hours	4
Course Description			
curriculum aims to inform trainee knowledge of projections drawing for incarnate which contain hidden lines and cross sections in different sides and engineering symbols.			

Course Title		Estimation	
Course Code	PM 153	Credits	4
Lecture Hours	4	Practical Hours	0
		Total Hours	4
Course Description			
curriculum aims to inform trainee knowledge of the cost estimation ways for work piece like row materials , operation time ,worker wages, gains . consumable materials in electric and oxy- acetylene welding and calculate time of strait and taper lathing .			

Course Title		Theory of Machines	
Course Code	PM 205	Credits	3
Lecture Hours	2	Practical Hours	2
		Total Hours	4
Course Description			
curriculum aims to inform trainee knowledge of basis understanding for force, energy ,power, torque and center of gravity , mechanism of transfer rotation motion to frequency motion ,pulley ,inclined plain ,belts, gears, cams functions and specification.			

Course Title		Technical Mathematics (2)	
Course Code	MA 154	Credits	3
Lecture Hours	3	Practical Hours	0
		Total Hours	3
Course Description			
Triangles calculation - Vector - Complex numbers- Calculations and Integrations			

Course Title		English Language(2)	
Course Code	EN 166	Credits	2
Lecture Hours	1	Practical Hours	2
		Total Hours	3
Course Description			
Text from a first Course in Technical English Book (2) with a view to furnishing the trainer with terminology in specialization Teaching of extracts from the new horizon series book (2) together with exercises.			

Course Title		Computer	
Course Code	CS 101	Credits	1
Lecture Hours	0	Practical Hours	2
		Total Hours	2
Course Description			
Computer (definition , consistence, and operation system - Windows- Microsoft, saving ,and typing reports- shifting through files , tables preparation .			

THIRD TRAINING SEMESTER

Course Title			
Combustion Technology			
Course Code	PH 201	Credits	4
Lecture Hours	4	Practical Hours	0
		Total Hours	4
Course Description			
The course aims to give the trainee the theoretical and imperial principals of combustion process and the methods used in get rid of solid , liquid and gas wastes.			

Course Title			
Infection Sciences			
Course Code	PH 202	Credits	3
Lecture Hours	3	Practical Hours	0
		Total Hours	3
Course Description			
The course aims to give the trainee theoretical principals of infection control science in hospitals and its applications in all the department in the hospital specially in central sections.			

Course Title			
Workshop Technology (3)			
Course Code	PM 201	Credits	4
Lecture Hours	2	Practical Hours	4
		Total Hours	6
Course Description			
The course aims to give the trainee the theoretical and empirical principals to carry out machining process on lathe , shipping , milling, and drilling machines			

Course Title			
Mechanical Vibrations			
Course Code	PM 209	Credits	3
Lecture Hours	2	Practical Hours	2
		Total Hours	4
Course Description			
curriculum aims to inform trainee knowledge of moving science ,moving particle ,vibration motions round and harmonious, free vibration, Newton second law, damping free vibration ,non-vibration motion, lost energy in viscous damping and recognition vibration measuring instrument .			

Course Title			
Lub. & Grease Technology			
Course Code	PM 211	Credits	3
Lecture Hours	2	Practical Hours	2
		Total Hours	4
Course Description			
curriculum aims to inform trainee knowledge of oil types , flame point, pour point, freezing point, carbon precipitation, power transmit by oil, viscosity units, viscosity measurement, equipment of lubrications ,grease types, turbine oil specifications.			

Course Title			
Diagrams Reading			
Course Code	PO 168	Credits	3
Lecture Hours	2	Practical Hours	2
		Total Hours	4
Course Description			
This course covers the recognized type of diagram especially for power station and how to read it.			

Course Title			
Control and Protection System			
Course Code	NH202	Credits	3
Lecture Hours	2	Practical Hours	2
		Total Hours	4
Course Description			
Electrical installation - Executions and faults of electrical installation-Types of switches - Earth leakage - Types of motor - Ammeter Voltmeter instrument, control panel of motor - contactor - - push button - single line diagram .			

Course Title			
Technical English (1)			
Course Code	EN 201	Credits	2
Lecture Hours	1	Practical Hours	2
		Total Hours	3
Course Description			
Teaching materials based on the series (MAMILAN CAREER ENGLISH-MECHANICAL ENGINEERING) designed to familiarize trainees with idioms and technical terminology in his professional field .			

FOURTH TRAINING SEMESTER

Course Title			
Laundry Equipment Maintenance			
Course Code	PH 251	Credits	3
Lecture Hours	0	Practical Hours	6
		Total Hours	6
Course Description			
The course aims to give the trainee a basic principle to do maintained to washing machine and its accessories such as heaters , gear boxes , shaft alignments ,			

Course Title			
Burning Equipment Maintenance			
Course Code	PH 252	Credits	3
Lecture Hours	0	Practical Hours	6
		Total Hours	6
Course Description			
This course gives the trainee a principal to maintain machines used in waste combustions and its accessories such as combustion chamber , waste (solid - liquid - gas treatment)unit			

Course Title			
Auxiliary Equipment Maintenance			
Course Code	PH 253	Credits	3
Lecture Hours	0	Practical Hours	6
		Total Hours	6
Course Description			
The course aims to give the trainee a necessary knowledge about pumps , compressors , filters piping and its maintenance			

Course Title			
Hoteling Equipment Operation			
Course Code	PH 254	Credits	4
Lecture Hours	3	Practical Hours	2
		Total Hours	5
Course Description			
This course aims to give the trainee the basic principles to operate equipment in washing hole such as boilers, washers , dryer & ironing machine			

Course Title			
Mechanical Maintenance Management			
Course Code	PM 251	Credits	4
Lecture Hours	4	Practical Hours	0
		Total Hours	4
Course Description			
curriculum aims to inform trainee knowledge of maintenance types , preventive and corrective maintenance ,corrective and preventive maintenance programs, maintenance charts, maintenance economy and maintenance contracts .			

Course Title			
Technical English (2)			
Course Code	EN 251	Credits	3
Lecture Hours	1	Practical Hours	2
		Total Hours	4
Course Description			
Teaching materials based in information presented in Hoteling equipment maintenance fundamentals. How an operator obtains information of instrument action , determines what is happening in the system . Detects problems and takes actions during emergencies . this teaching material includes exercises , idioms and technical terminology used in his professional field .			