



**Mechanical Engineering and
Material Sciences**

**Training Plan
2022**



DISCOVERY TOOLS

Training, Consulting & Conferences Organizing

Mechanical Engineering and Material Sciences

Training Venues : (Istanbul/ Cairo/ Alexandria/ Sharm El Sheikh/ Dubai/ Kuala Lumpur/ London/ Austria/ Amsterdam)

Code	Course Title	Date
MMS 012	Boiler and Steam System Management	02 – 06 JAN 2022
MMS 013	Process Plant Troubleshooting and Engineering Problem Solving	09 – 13 JAN 2022
MMS 014	Building Automation Systems (BAS)	09 – 13 JAN 2022
MMS 015	Pump Selection, Operation and Troubleshooting	16 – 20 JAN 2022
MMS 016	Measuring Mechanical Vibrations and Methods of Measurement	23 – 27 JAN 2022
MMS 017	Materials of Construction for Process Equipment	23 – 27 JAN 2022
MMS 018	Bearings Types, Installation and Disassembling	30 JAN – 03 FEB 2022
MMS 019	Mechanical Equipment: Compressors, Pumps, Seals, Motors and Variable - Speed Drives	06 – 10 FEB 2022
MMS 020	Diesel Pumps Maintenance and Inspection	06 – 10 FEB 2022
MMS 021	Centrifugal Compressor and Steam Turbine	13 – 17 FEB 2022
MMS 022	Mechanical Failure Analysis	20 – 24 FEB 2022
MMS 023	Safety Relief Valve Sizing, Selection, Operation, Inspection and Maintenance	20 – 24 FEB 2022
MMS 024	Composite Materials and its constituents	27 FEB – 03 MAR 2022
MMS 025	Mechanical Maintenance Fundamentals	06 – 10 MAR 2022
MMS 026	Materials of Construction for Process Equipment and Piping Systems	06 – 10 MAR 2022
MMS 027	Pumps Types and Maintenance	13 – 17 MAR 2022
MMS 028	Metallurgical Failure Analysis	20 – 24 MAR 2022



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MMS 029	Fired Heaters and Heat Exchangers	20 – 24 MAR 2022
MMS 030	Cooling Towers and Condensers	27 – 31 MAR 2022
MMS 031	Methods of Shaft Alignment	03 – 07 APR 2022
MMS 032	Refinery Critical Equipment Operation for Compressors, Turbines and Pumps	03 – 07 APR 2022
MMS 033	Custody Transfer and Flow Measurement	10 – 14 APR 2022
MMS 034	Pressure Vessel Inspector	17 – 21 APR 2022
MMS 035	Steam Boilers	17 – 21 APR 2022
MMS 036	Engineering Aspects of Welding	24 – 28 APR 2022
MMS 037	Principles and Components of Hydraulic Systems	01 – 05 MAY 2022
MMS 038	Process Control Valves and Actuators	01 – 05 MAY 2022
MMS 039	Gears Types, Installation and Maintenance	08 – 12 MAY 2022
MMS 040	Pumps and Compressors	15 – 19 MAY 2022
MMS 041	Diesel Pumps Maintenance and Inspection	15 – 19 MAY 2022
MMS 042	Heat Exchanger and Cooling Towers	22 – 26 MAY 2022
MMS 043	Study of Hydraulic Circuit Components, Fittings and Hoses	29 MAY – 02 JUNE 2022
MMS 044	Process Equipment and Piping Systems	29 MAY – 02 JUNE 2022
MMS 045	Heat Exchangers Operation and Maintenance	05 – 09 JUNE 2022
MMS 046	The Complete Tribology Course	12 – 16 JUNE 2022
MMS 047	Refractories: Applications, Inspection and Maintenance	12 – 16 JUNE 2022
MMS 048	Heat Transfer and Exchangers	19 – 23 JUNE 2022
MMS 049	Valves and Actuators Technology	26 – 30 JUN 2022
MMS 050	Heating, Ventilation, and Air Conditioning (HVAC) Systems	03 – 07 JULY 2022
MMS 051	Valves Operation and Maintenance	10 – 14 JULY 2022
MMS 052	HVAC Design, Operation, and Maintenance	17 – 21 JULY 2022
MMS 053	Materials Selection and Failure Analysis	24 – 28 JULY 2022



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MMS 054	Hydraulic and Pneumatic Systems	31 JULY – 04 AUG 2022
MMS 055	Control Valves and Actuators (Characteristics – Types)	07 – 11 AUG 2022
MMS 056	Hydraulic Pumps and Valves	14 – 18 AUG 2022
MMS 057	Valves Classes and Pressure Rating, SRV's Inspection and Maintenance	21 – 25 AUG 2022
MMS 058	Introduction to Plant Piping and Valves	28 AUG – 01 SEP 2022
MMS 059	Methodology of Automation Systems	04 – 08 SEP 2022
MMS 060	Introduction to Risk Based Inspection	11 – 15 SEP 2022
MMS 061	Methodology of Machine Elements	18 – 22 SEP 2022
MMS 062	Lifting Equipment Selection, Maintenance and Troubleshooting	25 – 29 SEP 2022
MMS 063	Refractory Design, Installation, Inspection and Repair	02 – 06 OCT 2022
MMS 064	Mechanical Failures and Systems Analysis	09 – 13 OCT 2022
MMS 065	Pipeline Operations and Maintenance	16 – 20 OCT 2022
MMS 066	Rotating Equipment:Start-up, Operation, Maintenance and Troubleshooting	23 – 27 OCT 2022
MMS 067	TEMA and HTRI Heat Exchanger	30 OCT – 03 NOV 2022
MMS 068	Plant Piping	06 – 10 NOV 2022
MMS 069	Multiphase Flowmetering	13 – 17 NOV 2022
MMS 070	Design Criteria in Instrumentation Engineering	20 – 24 NOV 2022
MMS 071	Pipeline Operations and Maintenance	27 NOV – 01 DEC 2022
MMS 072	Mechanical Engineering Essentials	04 – 08 DEC 2022
MMS 073	Process Engineering Essentials	11 – 15 DEC 2022
MMS 074	Artificial Lift Systems	18 – 22 DEC 2022
MMS 075	Process and Mechanical Engineering Essentials	25 – 29 DEC 2022