



Oil & Gas Piping Engineering

Course Duration : 4 Months



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PIPING SYLLABUS

Introduction to Oil & Gas
Introduction to Projects
Oil Exploration
Oil Refining
Drilling
Basic Piping
Process Equipment
Codes & Standards.
Fittings & Components
Abbreviations & Symbols
Isometric Drawing
Cut Length Calculations
Bill of Materials
General Arrangement Drawing
P & ID
Pipe Materials
Pipe Supports
Scaffoldings
Insulations
Hydro Test
Safety - (h2s/ppe/work Permit System/fire & Industrial Safety)



Vessels & Boiler Inspection

Industrial and fire safety



QA/QC SYLLABUS

Introduction to QA/QC
Responsibilities of QC Inspector
Terms and Definition in Welding Technology
Factors Essential for Welding
Welding Positions
Welding Symbols and Drawings
Defectology (Welding,Casting,Forging)
Fractures and in Service Failure
Introduction to Welding Processes
Fusion Arc Welding Processes
(MMA(SMAW)/MIG/MAG/GMAW)/TIG(GTAW)/FCAW/SAW/ESW)
Welding Parameters
Weld Metallurgy and Material Inspection
Weldability of Steels
Heat Treatment
Thermal Cutting Process
(Oxy Fuel Gas Cutting, Plasma Arc Cutting, Air Arc Gouging)
Destructive Testing
Stress and Distortion
Weld Repairs
Arc Safety
Calibration
Documentation - (WPS/PQR/WQT /ITP/Material Test Report/
NDT Requisition Report)



PRACTICAL

Defects Identification and Report Making
Using of Gauges
(Bridge Cam Weld Gauge, Fillet Weld Gauge,
Taper Gauge, Hi/lo Gauge)

NON DESTRUCTIVE TESTING LEVEL I & II

Visual Testing
Liquid Penetrant Testing
Magnetic Particle Testing
Ultra Sonic Testing
Radiographic Testing
Radiographic Film Interpretation



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