

# Oil&Gas Piping Engineering

Course Duration: 4 Months









## PIPING SYLLABUS

Introduction to Oil & Gas

Introduction to Projects

Oil Exploration

Oil Refining

Drilling

Basic Piping

Process Equipment

Coads & 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

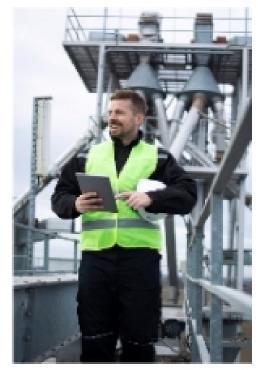
Calibration

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,





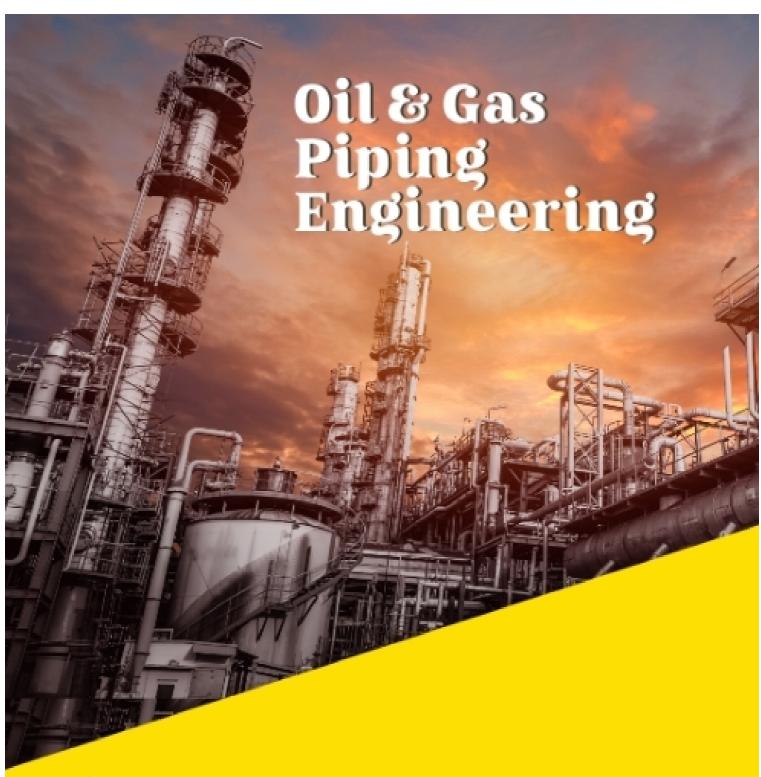




Taper Gauge, Hi/lo Gauge)

#### NON DESTRUCTIVE TESTING LEVEL I & II

Visual Testing
Li quid Penetrant Testing
Magnetic Particle Testing
Ultra Sonic Testing
Radiographic Testing
Radiographic Film Interpretation





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