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Blitz Academy

DIPLOMA IN OIL & GAS

**6 Month Programme
Online & Offline**

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OIL & GAS

The Oil & Gas industry is one of the most critical and technically demanding sectors in the world, powering economies and shaping global infrastructure. Our Oil & Gas Engineering course provides in-depth knowledge and practical skills in areas such as piping, welding, QA/QC, inspection, and project management essential for ensuring operational safety, efficiency, and compliance.

This course is designed to prepare you for real-world challenges in upstream, midstream, and downstream operations. You'll gain hands-on experience with industry-specific standards like ASME, API, and AWS, and learn how to read and interpret P&IDs, isometric drawings, and material specifications used across Oil & Gas projects.

Your certification in Oil & Gas Engineering opens doors to a wide range of careers in Exploration & Production, Drilling, Refining, Pipeline Engineering, QA/QC Inspection, and more. With global demand for skilled professionals in this field, your career path promises high earning potential, international opportunities, and long-term job security.

About Blitz OIL AND GAS

Blitz Academy's Oil & Gas Engineering program prepares you for technical roles across exploration, drilling, refining, pipeline construction, and QA/QC inspection. This course is ideal for engineers, diploma holders, or professionals looking to upskill or transition into the Oil & Gas sector.

- ▶ **IN-DEPTH TRAINING IN PIPING ENGINEERING, WELDING INSPECTION, QA/QC, AND OILFIELD EQUIPMENT**
- ▶ **COMPREHENSIVE COVERAGE OF INTERNATIONAL CODES: ASME, API, AWS**
- ▶ **HANDS-ON PRACTICE WITH P&IDS, ISOMETRIC DRAWINGS, AND REAL INDUSTRY DOCUMENTS**
- ▶ **PROJECT DOCUMENTATION, REPORT WRITING, AND SITE INSPECTION TECHNIQUES**
- ▶ **MOCK INTERVIEWS, VIVA SESSIONS AND REAL-WORLD CASE STUDIES**
- ▶ **ONLINE & OFFLINE CLASSES BY EXPERTS WHO HAVE BEEN API/AWS/CSWIP CERTIFIED**
- ▶ **DEDICATED CAREER SUPPORT, INTERNATIONAL PLACEMENT ASSISTANCE**



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DIPLOMA IN OIL AND GAS

OIL & GAS MANAGEMENT

- ▶ Type of Rig
- ▶ Department of Rig
- ▶ Drilling Method
- ▶ Exploration & Operation
- ▶ Duties of Roustabout
- ▶ Tools and Tackles in Rig
- ▶ Rig Safety

PIPING & PIPELINE ENGINEERING

- ▶ Introduction to Piping and Piping Engineering
- ▶ Piping Fundamentals
- ▶ Pipe Fittings
- ▶ Flanges and Gasket
- ▶ Piping Materials and Specifications
- ▶ Codes and Standard
- ▶ Valves
- ▶ Piping Support
- ▶ Piping Insulation
- ▶ Piping Drawings
- ▶ Mechanical Equipment's

DURATION

6 MONTH

ELIGIBILITY CRITERIA

PLUS TWO / ANY
GRADUATION

INDUSTRIAL VISIT

PLACEMENTS

INTERNSHIP

WELDING INSPECTION

- ▶ Codes & standards
- ▶ Duties of a welding inspector
- ▶ Joints, weld terms, definitions & symbols
- ▶ Weld positions
- ▶ Welding processes
- ▶ Shielded metal arc welding(SMAW)
- ▶ Gas tungsten arc welding(GTAW)
- ▶ Gas metal arc welding(GMAW)
- ▶ Submerged arc welding(SAW)
- ▶ Flux cored arc welding(FCAW)
- ▶ Electrode selection in each process
- ▶ Cutting processes
- ▶ Welding imperfections classification
- ▶ Imperfection causes & preventive actions
- ▶ Weldability, stress & distortion
- ▶ Heat treatments
- ▶ Destructive testing
- ▶ Welding procedure specifications
- ▶ Documentation

NON DESTRUCTIVE TESTING (NDT)

NON DESTRUCTIVE TESTING INTRODUCTION

- ▶ Standard Organizations
- ▶ Terminology in NDT
- ▶ Objectives of NDT
- ▶ Steps of Penetrant testing
- ▶ Methods of surface preparation & penetrant application
- ▶ Classification of penetrant testing
- ▶ Methods of excess penetrant removal & type of developers

VISUAL TESTING(VT)

- ▶ Basic Requirements
- ▶ Inspecting Aids
- ▶ Duties of Inspector

ULTRASONIC TESTING(UT)

- ▶ Spectrum of sound
- ▶ Type of Ultrasonic Waves & Beams
- ▶ Type of Probes & Data Presentation
- ▶ Calibration & Blocks
- ▶ DAC Curve Plotting & Blocks

PENETRANT TESTING

- ▶ Capillary action & test chemicals

RADIOGRAPHY TESTING

- ▶ Basic principles of Radio Graphic Testing & Radio activity
- ▶ Electromagnetic waves
- ▶ X-Ray & Gamma Radiography
- ▶ Camera,Guide Tube,Drive Cable & Collimator
- ▶ Radiation MEASUREMENTS & UNITS
- ▶ Industrial RT Film & Film Processing
- ▶ Image Quality Indicators & Radiography Techniques
- ▶ Radiation safety, Measuring devices & Exposure time calculators

MAGNETIC PARTICLE TESTING

- ▶ Basics of Magnetism & Material Classification
- ▶ Introduction of Magnetic Field
- ▶ Steps & types of MPT
- ▶ Types of Magnetization Current & Right hand thumb rule
- ▶ Types of Magnetization & Types of Magnetic Particles
- ▶ Checking Instruments & Field Indicators
- ▶ Demagnetization & Curie Temperature

CORPORATE SKILLS & EMPLOYABILITY TRAINING



What you will learn from Blitz

- ▶ Reading & interpreting industrial drawings and specifications
- ▶ Hands-on experience with real tools and equipment
- ▶ Understanding project workflows in Oil & Gas, Power, and Fabrication industries
- ▶ Industry case studies and troubleshooting exercises
- ▶ International placement assistance and guidance
- ▶ Welding Inspection Techniques (Visual, Radiographic, Ultrasonic, etc.)
- ▶ Material Inspection & Verification (MTC review, PMI, hardness testing)
- ▶ NDT Basics (Non-Destructive Testing overview)
- ▶ Fabrication & Erection Quality Checks

OUR MENTORS



Mr. Mukesh MG

Diploma in Mechanical Engineering
ASNT NDT Level II
Experience – 16 years (Industry + Teaching)



Mr. Varghese Joy

BE Mechanical Engineering
Experience – 12 years (Industry + Teaching)



Mr. Sibin K George

B Tech Mechanical Engineering
CSWIP 3.1 Welding Inspector, ASNT Level II
Experience – 12 years (Industry + Teaching)



Blitz Academy

CORPORATE OFFICE - BANGALORE - 3rd Floor, No.48, 100 Feet Road, Near Sony Signal, 4th Block, Koramangala, Bangalore-560034

REGISTERED OFFICE - ERNAKULAM NORTH - 41/2553-D, 2nd Floor Metro Palace, Opp.North Railway Station, Ernakulam 602018

MG ROAD ERNAKULAM - Perumpillil Building, Mahatma Gandhi Rd, KPCC Junction, Opp Maharaja's Ground, Ernakulam, Kerala 682011

CALICUT - 6th Floor, Holiday City Centre, Bank Rd, Mavoor Road Junction, Opp. Kurishupally, Calicut, Kerala 673004



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