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Blitz Academy

MECHANICAL QA/QC ENGINEERING

**3.5 Month Programme
Online & Offline**

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MECHANICAL QA QC ENGINEERING

Mechanical QA/QC (Quality Assurance / Quality Control) professionals play a crucial role in ensuring that mechanical systems, equipment, and components meet design specifications, safety standards, and industry codes. The scope and opportunities in this field can vary depending on the industry, location, and level of expertise. Mechanical QA/QC professionals are in demand in various sectors: Oil & Gas, Power Plants (Thermal, Nuclear, Renewable) Construction & Infrastructure, Automotive, Manufacturing & Fabrication, Aerospace, Shipbuilding & Marine, HVAC & Building Services, Railways. Mechanical QA/QC is a highly specialized and stable career path with global demand. If you focus on acquiring relevant certifications, practical inspection skills, and code knowledge, your growth can be significant, especially in large-scale industrial and infrastructure projects.

About Blitz

MECHANICAL QA/QC

At Blitz Academy, we prepare individuals to face real-world challenges in the Quality Assurance and Quality Control industry. Our training is practical, industry-driven, and focused on building not only technical skills, but also professional and leadership qualities essential for compliance roles. We offer training in critical QA/QC aspects, including welding inspection, material verification, dimensional control, and code compliance for applications in Oil & Gas, Power Generation, and Heavy Fabrication. This enhances project integrity, safety standards, and global competitiveness. Our program focuses on professional development through skill mastery, adherence to international codes (ASME, API, AWS), and preparing students for inspection, QA/QC, and engineering careers with real-time documentation practice and industrial case studies. Prepare for a high-demand career in Quality Assurance and Quality Control with our industry-focused training.

- ▶ **STRUCTURED & FLEXIBLE CURRICULUM (ONLINE & OFFLINE)**
- ▶ **LED BY CERTIFIED EXPERTS (API, AWS, CSWIP)**
- ▶ **REAL INDUSTRIAL DRAWINGS & EQUIPMENT-BASED TRAINING**
- ▶ **CODE COMPLIANCE TRAINING (ASME, API, AWS)**
- ▶ **CAREER SUPPORT & INTERNATIONAL PLACEMENT ASSISTANCE**
- ▶ **MOCK INTERVIEWS & VIVA SIMULATIONS**
- ▶ **REAL-TIME DOCUMENTATION PRACTICE & CASE STUDIES**
- ▶ **MOCK INTERVIEWS TO SIMULATE REAL WORLD TECHNICAL VIVA EXPERIENCES**



Join Now

MECHANICAL QA/QC ENGINEERING

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

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

DURATION

6 MONTH

ELIGIBILITY CRITERIA

**PLUS TWO / ANY
GRADUATION**

INDUSTRIAL VISIT

PLACEMENTS

INTERNSHIP

NON DESTRUCTIVE TESTING (NDT)

NON DESTRUCTIVE TESTING INTRODUCTION

- ▶ Standard Organizations
- ▶ Terminology in NDT
- ▶ Objectives of NDT

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
- ▶ Steps of Penetrant testing
- ▶ Methods of surface preparation & penetrant application
- ▶ Classification of penetrant testing
- ▶ Methods of excess penetrant removal & type of developers

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
- ▶ Tptes 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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