



**SKILLZYN**<sup>TM</sup>  
**ACADEMY**  
Empowering Skills

**Build Skills**  
**Build Your**  
**Future**



**Skillzyn Academy**  
**Career - Focused Training Programs**

 [www.skillzyn.com](http://www.skillzyn.com)

**About Us**



# Your Pathway to Career Success Starts Here.

Skillzyn Academy is a professional skill-development institute dedicated to bridging the gap between education and industry. We focus on practical, career-oriented training that empowers students to become job-ready in high-demand sectors. Our programs combine expert faculty guidance, hands-on learning, and internship support to help learners build strong career foundations.

## **Our Mission**

At Skillzyn Academy Private Limited, our mission is to empower students with industry-relevant skills that bridge the gap between education and employment.



## **Why Choose Skillzyn?**

Industry-oriented training

Practical learning + internships

Expert faculty & real-world projects

Placement assistance

Globally relevant skills

**Programs We Offer**

# Choose Your Career Track

- **Healthcare Management & Administration**
- **Diploma in Civil Construction Management**
- **Logistics & Supply Chain Management**
- **Human Resource Management & Industrial Relations**
- **Diploma in Food Safety & Quality Management**
- **QA / QC (Mechanical, Civil, Electrical)**
- **Aviation & Airport Management**
- **Banking & Financial Management**
- **Accounting & Taxation**
- **Fire and Safety**
- **Digital Marketing**
- **NDT Level II**
- **Oil and Gas Operations**
- **Electric Vehicle (EV) Design**
- **Montessori Teacher's Training**



# QA | QC Mechanical

## Duration

3 Months | 6 Months

## Qualification

Plus Two & Above

## Certification

(CTDS), Skillzyn

The QA | QC (Mechanical) course at Skillzyn Academy Private Limited equips students with essential knowledge and practical skills for careers in mechanical quality assurance and quality control. The program covers quality management systems, mechanical standards (ISO, ASME, ASTM, API), inspection and testing methods, material testing, statistical quality control, root cause analysis, and corrective and preventive actions (CAPA)

## Career Opportunities ?

Quality Assurance Engineer

Quality Control Inspector

Mechanical QC Engineer

Fabrication QC Inspector

NDT Coordinator

Production Quality Engineer

Inspection & Testing Engineer



## Benefits of

# QA | QC Mechanical

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- Global Opportunities**  
Skills aligned with international standards (ISO, ASME, ASTM, API) support employment in domestic and international markets.
- Attractive Salary Packages**  
Competitive pay with opportunities for overtime, project-based incentives, and overseas employment.
- Critical Role in Safety & Compliance**  
Direct involvement in ensuring product reliability, safety, and regulatory compliance.
- Hands-on Technical Expertise**  
Develops strong practical skills in inspection, testing, documentation, and quality control processes, enhancing on-site and plant-level effectiveness.

## Course Module

- 1. Introduction to QA | QC (Mechanical)**
  - » Overview of quality assurance and quality control in mechanical industries
  - » Roles and responsibilities of QA/QC professionals
  - » Quality objectives and compliance requirements
  - » Career pathways in mechanical QA/QC

## **2. Quality Management Systems & Standards**

- » Quality management system concepts
- » ISO 9001 requirements and documentation
- » Mechanical codes and standards (ASME, ASTM, API)
- » Audit preparation and compliance

## **3. Engineering Drawings & Dimensional Inspection**

- » Reading and interpretation of mechanical drawings
- » Geometric dimensioning and tolerances (GD&T)
- » Measuring instruments and calibration
- » Dimensional inspection techniques

## **4. Material Testing & Metallurgy Basics**

- » Properties of engineering materials
- » Destructive and non-destructive material tests
- » Heat treatment and material certification

## **5. Welding, Fabrication & NDT Fundamentals**

- » Welding processes and weld defects
- » Welding procedure specifications (WPS/PQR)
- » Non-destructive testing methods (UT, RT, PT, MT)
- » Inspection stages and acceptance criteria

## **6. Inspection & Testing Procedures**

- » Incoming, in-process, and final inspection
- » Inspection and test plans (ITP)
- » Pressure testing and functional testing
- » Non-conformance reporting (NCR)

## **7. Statistical Quality Control & Process Validation**

- » Statistical process control (SPC)
- » Control charts and quality tools
- » Process capability and validation
- » Root cause analysis techniques

## **8. Corrective & Preventive Actions (CAPA) and Documentation**

- » Non-conformance management
- » Corrective and preventive action systems
- » Quality records and documentation control

## **9. Industrial Practices, Safety & Career Development**

- » Industrial safety and quality compliance
- » Case studies and real-world applications
- » Interview preparation and career guidance
- » Placement assistance and professional development

# Build **Skills** Build Your Future



Start Your  
**Skill Journey Today !**



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