

# QUALITY TECHNICIAN

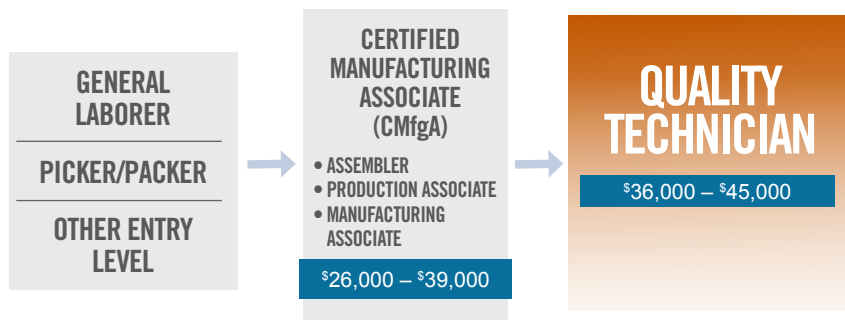


## PREPARE FOR A CAREER AS A QUALITY TECHNICIAN

Quality Technicians are responsible for conducting testing procedures during manufacturing processes to ensure that products comply with quality standards.

**Upon completion of this program, students will have an understanding of:**

- Best practices for inspection and instrumentation
- Common mechanical properties
- The impact of ISO 9000 certification and audits
- How lean and six sigma tools support continuous improvement initiatives
- The physical properties of metals
- Effective communication strategies
- Key Geometric Dimensioning & Tolerancing prints
- Nondestructive testing and its six most common methods
- Best practices for the complete layout of parts



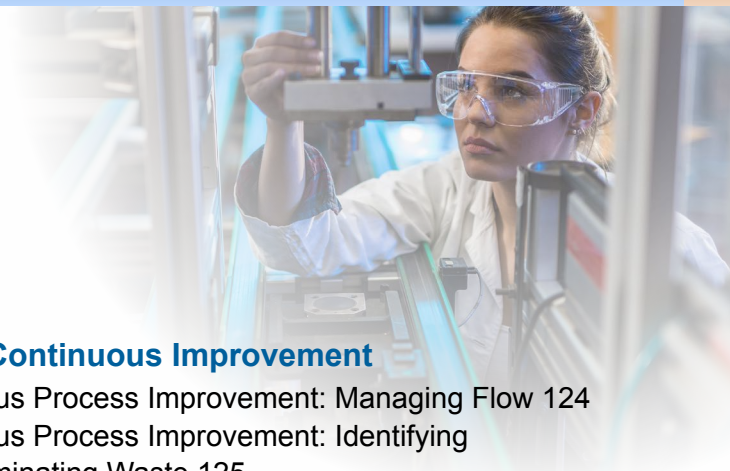
Salary information is the average national salary range for the job role.  
Source: U.S. Bureau of Labor Statistics

The average national salary range for **quality technicians** is

**\$36,000 - \$45,000**

Source: U.S. Bureau of Labor Statistics





## These are the Units and Courses required to complete the Quality Technician program:

### Unit 1: Introduction to Materials

Introduction to Mechanical Properties 111  
Introduction to Physical Properties 101  
Introduction to Metals 121  
Hardness Testing 221

### Unit 2: Inspection I

Calibration Fundamentals 111  
Thread Standards and Inspection 151  
Surface Texture and Inspection 201  
Linear Instrument Characteristics 115

### Unit 3: Lean Six Sigma Fundamentals

Lean Manufacturing Overview 101  
Metrics for Lean 231  
Intro to Six Sigma 171  
Six Sigma Goals and Tools 310  
Troubleshooting 181

### Unit 4: Inspection II

Introduction to Laser Trackers 365  
Inspecting a Prismatic Part 321  
Inspecting a Cylindrical Part 331  
Advanced Hole Inspection 341  
Measuring System Analysis 300

### Unit 5: Inspection III

Inspecting with Optical Comparators 351  
Inspecting with CMMs 361  
Calibration and Documentation 371  
In-Line Inspection Applications 381  
Nondestructive Testing 211

### Unit 6: Continuous Improvement

Continuous Process Improvement: Managing Flow 124  
Continuous Process Improvement: Identifying and Eliminating Waste 125  
Intro to Supply Chain Management 140  
Strategies for Setup Reduction 251

### Unit 7: GD&T & Applied Math

Introduction to GD&T 301  
Major Rules of GD&T 311  
GD&T Applications 312  
Statistics 231  
Trigonometry: Sine, Cosine, Tangent 211

### Unit 8: TQM & ISO

Total Quality Management Overview 261  
Process Flow Charting 241  
ISO 9001: 2015 Review 122  
SPC Overview 211

### Unit 9: Quality Tools

Management Tools: Problem Solving 270  
Management Tools: Product and Process Design 275  
Value Stream Mapping: The Current State 301  
Value Stream Mapping: The Future State 311

### Unit 10: Interpersonal Aspects of Quality

Quality and Customer Service 175  
Conducting an Internal Audit 201  
Managing Practices for Total Quality 320  
Essentials of Communication 120  
Team Leadership 160

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This online upskilling opportunity provides new skills to help you get ahead. Classes are accessible on desktops/laptops, tablets, and smartphones via the Tooling U-SME app. Each course takes approximately one hour to complete.