

Tooling University provides products and services that address some of the most critical skill and capability requirements of today's global manufacturing workforce.

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Inspectors are responsible for verifying the quality of products and ensuring that products meet their specifications. This position demands a strong knowledge of math and print reading, geometric dimensioning and tolerancing, advanced inspection tools such as CMMs and optical comparators, locating principles, and a working knowledge of common manufacturing processes. Inspectors are also likely to be involved in quality initiatives and process control.

This program contains all of the 66 classes below:

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|          | <ul style="list-style-type: none"> • Intro to Abrasives 100 • Grinding Processes 120 • Electrical Units 110 • Basic Measurement 110 • Linear Instrument Characteristics 115 • Basics of the CMM 120 • Basics of the Optical Comparator 130 • Surface Measurement 140 • Overview of Threads 150 • Intro to GD&T 200 • Calibration Fundamentals 210 • Inspecting with CMMs 220 • Inspecting with Optical Comparators 230 • Hole Inspection 240 • Thread Inspection 250 • Hardness Testing 260 • Measuring System Analysis 300 • Interpreting GD&T 310 • Intro to Materials 100 • Structure of Metals 110 • Mechanical Properties of Metal 120 • Physical Properties of Metal 130 • Metal Classification 150 • Ferrous Metals and Alloys 210 • Nonferrous Metals and Alloys 220 • Heat Treatment of Steel 230 • Metal Removal Processes 110 • Cutting Processes 140 • Quality Overview 100 • ISO 9000 Overview 110 • Lean Manufacturing Overview 130 • Intro to Six Sigma 170 • Conducting an Internal Audit 200 | <ul style="list-style-type: none"> • SPC Overview 210 • TS 16949:2002 Overview 220 • Six Sigma Goals and Tools 310 • Intro to OSHA 100 • Fire Safety and Prevention 110 • Bloodborne Pathogens 115 • Personal Protective Equipment 120 • Lockout/Tagout Procedures 130 • Safety for Lifting Devices 135 • Environmental Safety Hazards 150 • MSDS and Hazard Communication 160 • Noise Reduction and Hearing Conservation 170 • Walking and Working Surfaces 180 • Powered Industrial Truck Safety 210 • Math: Fundamentals 100 • Math: Fractions and Decimals 105 • Math: Units of Measurement 115 • Basics of Tolerance 120 • Blueprint Reading 130 • Geometry: Lines and Angles 155 • Geometry: Triangles 165 • Geometry: Circles and Polygons 185 • Shop Algebra Overview 200 • Trig: Pythagorean Theorem 205 • Shop Trig Overview 210 • Trig: Sine, Cosine, and Tangent 215 • Statistics 220 • Trig: Sine Bar Applications 225 • Interpreting Blueprints 230 • Intro to Workholding 104 • Supporting and Locating Principles 106 • Locating Devices 107 • Fixture Design Basics 210 |
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