

Tolerance and Quality Control Level 2



Description

Tolerance and Quality Control Level 2 introduces students to multiple quality assurance theories and components used to measure tolerances in industry. International Organization for Standardization standards are introduced through problem solving activities. Students collect and analyze data with the use of an industrial standard wireless data collection device, electronic precision measure components, and software.

Objectives

- Distinguish between ISO series.
- Gather data using wireless collection components.
- Distinguish between ISO series.
- Understand and create control charts.
- Describe and understand benchmarking.
- Apply the Pythagorean Theorem.

Activities

- Lesson 1 Safety
- Lesson 2 Level 1 Manual 1 Review
- Lesson 3 Level 1 Manual 2 Review
- Lesson 4 Pythagorean Theorem
- Lesson 5 Engineer Scale
- Lesson 6 Wireless Data Collection
- Lesson 7 Electronic Micrometer
- Lesson 8 Electronic Caliper
- Lesson 9 Control Limits
- Lesson 10 Electronic Indicator
- Lesson 11 Tolerance Stack Analysis
- Lesson 12 Benchmarking
- Lesson 13 Total Quality Mangement
- Lesson 14 Failure Modes and Effects Analysis
- Lesson 15 SPC Techniques I
- Lesson 16 SPC Techniques II
- Lesson 17 Control Charts
- Lesson 18 ISO 9000 Series
- Lesson 19 ISO 14000 Series
- Lesson 20 Review

Standards

DEPCO courseware is developed from the Manufacturing Skill Standards Council (MSSC) and the National Skill Standards Board (NSSB). Close correlation with these standards will provide students with the skills and knowledge necessary for success in the workplace.

Module Includes:

Training Manuals, Instructor's Manual, Installation CD, Electronic Micrometer, End Node, Electronic Caliper, Electronic Indicator, Wireless Data Collection System and Software.

Computer is required and sold separately.

Curriculum Specifications

Tolerance and Quality Control Level 1 is the prerequisite.