

BASIC GD&T

COURSE DESCRIPTION

Intended for practicing professionals who create drawing specifications or read drawings, this course helps students make sense of a topic that some find overwhelming. In this comprehensive class, the key principles are explained and brought down to the real world. The delivery includes and lots of illustrations and animations to help with conveying concepts. More than simply memorizing symbols, students leave this course with a working understanding of how the system works and feel confident fully understanding drawing requirements and creating their own tolerancing schemes for parts.

This course provides lots of practical hands-on exercises to drive home the concepts and encourage questions and effective discussions. The exercises go beyond the theory to show how tolerancing works on real working parts.

LEARNING OBJECTIVES

- Visualize the different types of variation that exist on parts, recognize the limitations of numeric tolerances and understand the need for geometric tolerances.
- Analyze tolerances expressed numerically and calculate minimum and maximum allowable values for dimensions.
- Understand and apply the symbols used with the geometric system of tolerances.
- Recognize basic dimensions on prints and properly interpret their meaning.
- Properly evaluate inspection data in light of tolerance zones defined by geometric controls.
- Apply tolerances with bonus when suited to the application and properly interpret tolerances when bonus tolerance applies.
- Identify and properly interpret geometric controls on location, orientation, form, profile & runout.

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LEARNING OBJECTIVES, CONT.

- Recognize datum feature identifiers applied to features with size and surfaces.
- Identify and interpret the datum reference frame including order of precedence.
- Create specifications using appropriate geometric tolerances and datum reference frames.

WHO SHOULD ATTEND

This course is designed for anyone in engineering, manufacturing, and quality assurance who need to define engineering requirements with drawings, or properly interpret and act upon the information found in engineering drawings

Prerequisite: A Basic Print Reading workshop/course is recommended as a prerequisite. The Basic GD&T course does not review general print-reading concepts such as views, title blocks, and notes. Students who have become familiar with finding and understanding information on prints through on-the-job experience will be prepared for this course.

Course Format: 24 hours: 3 in-person sessions or 5 online sessions



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