



IIGDT Training

“Executive Overview”

Understanding Business Implications of GD&T

Objective:

Provide business level insight to all management levels of the technical challenges and business level implications of GD&T and measurement. Provide direct insight to the implications effective GD&T has on improving product development cycles and customer/supplier relationships. Establish a core foundational understanding of the scope of GD&T applicability to all departments/divisions within area the company.

Meeting Length:

4 Hours

Meeting Content:

Current Global Industrial Problems

- Incorrect Perceptions of Linear Tolerancing and Negative Impact to Product Development Cycles
- Incorrect Perceptions of Technical Competencies of Mechanical Engineers and Engineers of other Disciplines
- Negative Implications to Measurement Capability (GR&R) & Statistical Process Capability (C_{pk})
- Negative Implications to Supply Chain Management and Lead-Time to Market

Ongoing Technical & Business Challenges

- Business Implications to Product Technology Roadmap
- Miniaturization and Tolerance Truncation of Components & Features
- Historical Changes in ASME Standards & Implications of ISO Standards
- Business Implications of GD&T from a Product Reliability Perspective

Targeted Industrial Solutions

- Business Value of Standardization & Harmonization of Engineering Practices
- Technology Training Roadmap by Functional Business Area

Technical & Business Benefits

- Global Simplification of Dimensioning & Tolerancing Practices
- Positive Implications of GD&T from a Tolerancing Model Perspective
- Cost Reductions from Suppliers Influenced by Precision GD&T
- Internal Cost Reductions Influenced by Increase in Design Specification Tolerances

Targeted Audience:

All managers and executives with direct or indirect responsibility for product development, manufacturing, quality, customer interaction or supply chain management!

Motivation & Historical Challenges:

Most managers at all levels have lacked a core understanding of the business implications these subjects have on product development timelines, product reliability/risk and supplier/customer interactions. The incorrect assumption by most managers is that all of their applicable employees have the necessary skill sets to adequately perform their job tasks at an adequate level. The key question to all managers should be “where and how would their employees have acquired these fundamental skill sets?” GD&T and measurement are not subjects taught at most universities and colleges and are not focus subjects in mechanical engineering (ME) programs. At best the ME is barely introduced to GD&T and even less on measurement. If the ME is not getting adequately trained in these areas then where and how are the remaining disciplines being adequately trained (technicians, tool makers, drafters, designers, quality, statisticians, etc)?