Module 1: Introduction
- Dimension types and applications
- Definitions
- GDT Professional Certification Exam
- The role of dimensions

Module 2: Floating Fastener Condition
- Position MMC
- Tooling / Production
- Inspection
  - CMM (coordinate measuring machine)
  - Functional gage
  - Manual inspection

Module 3: Zero Tolerancing
- Position zero tolerance
- Tooling / production
- Inspection

Module 4: Fixed Fastener Condition
- Position MMC
  - Pitch cylinder rule
  - To MMC (maximum material condition) or not to MMC
- Tooling / production
- Inspection
  - CMM
  - Functional gage
  - Open setup
Module 5: Fixed Fastener Condition
- Non-functional datum feature
- Functional secondary size datum feature
  - RFS
  - MMC
- Shift
- Tertiary size datum feature

Module 6: Composite & Two Single Segments
- Introduction
- Composite positional tolerancing
- Two single segment feature control
  - Frames

Module 7: Paper Gaging
- Part description
- Location data
- Paper gage
- Calculating the tolerance
- Additional information
- Limitations

Module 8: Non-Cylindrical Tolerance Zones
- Position zones
  - Conical
  - Bidirectional
  - Elongated
- Composite profile zones
Module 9: Dimensional Management

- Current quality efforts
- Dimensional management rational
- Dimensional management phases
  - Set objectives
  - Develop dimensioning strategy
  - Apply dimensions
  - Analyze dimensions
  - Verify dimensions
- Resolving problems
- The dimensional analyst
- The educational dilemma

Module 10: Dimensional Analysis Part 1

- Variation
- Analysis methods
- Computer modeling
- Analysis stages

Module 10: Dimensional Analysis Part 2

- Identify the problem
- Choose the answer
- Identify the path
- Perform the math