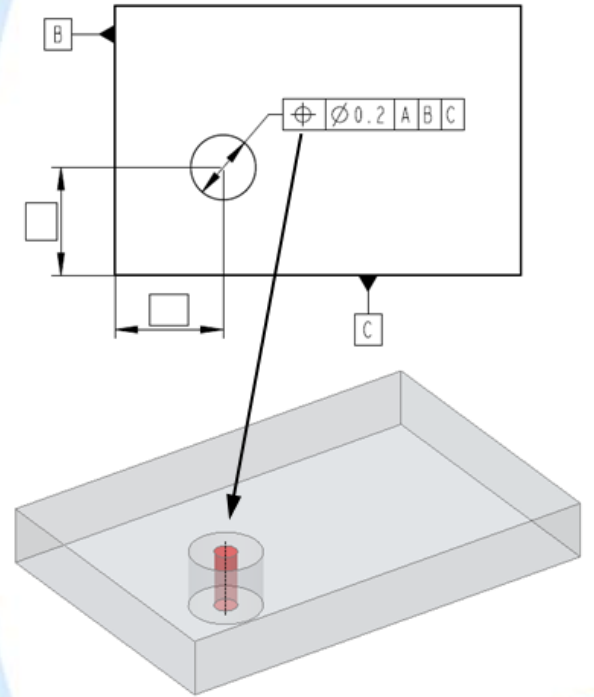


Geometrical Product Specifications

Advanced Training – 3 days



Agenda

Day 1

1. Introductions

- Instructor
- Students
- Training material

2. GPS basics

- Tolerance hierarchy
- Functional tolerancing
- Datums
- Degrees of freedom

3. Optimizing tolerance schemes

- Local datum systems

4. Advanced Datums

- Situation features
- Datum targets
- Contacting features
- Moveable datum targets

5. Sizes

- Linear sizes
- Dimensions other than linear sizes
- Angular sizes

6. Flexible tolerances with Material modifiers

- Maximum material (M)
- Least material (L)
- Reciprocity (R)

Agenda

Day 2

8. Advanced Modifiers

- Any cross section (ACS)
- SZ / CZ / UF
- Specified tolerance zone offset (UZ)
- Unspecified linear tolerance zone offset (OZ)
- Free state (F)
- Orientation constraint only ($><$)
- Common toleranced feature of size (CT)

9. Patterns

- CZ, SZ, CZR
- Multiple indicator pattern specification (SIM)
- Multi-level single pattern specification (SZ CZ)

10. Non-rigid parts

11. Surface texture and Surface Imperfections

12. Design and Verification

- Duality principle
- Functional control principle
- Responsibility principle

13. ISO vs ASME

