

Geometrical Dimensioning & Tolerancing

(GD & T Part 2)

Applying GD & T

Course Overview;

This course is aimed at delegates who have a good knowledge of basic geometrical dimensioning and tolerancing and follows on from the GD & T fundamentals course (GD & T Part 1).

This course is aimed at design engineers who will be applying the symbols as well as engineers who have to interoperate the symbols. The course helps to provide a consistent understanding of GD & T.

Duration;

1 Day, usually between 9 am and 4:30 pm.

Course Content;

Tolerance zone

- Tolerance of size
- Geometrical tolerance
- Combining GD & T and size tolerances

Dependency or Independency?

- Principle of dependency
- Principle of independency
- Understanding the difference
- Indicating dependency or independency

Envelope principle

- Using the envelope principle
- Conflict with independency

Projected tolerances

- What are they?
- Applying a projected tolerance

Combined tolerances

- What are they?
- Understanding the resulting tolerance zones
- How to apply them

Target Datums

- What is a target datum?
- Applying target datums

Zero tolerancing

- Ensure parts are as manufacturable as possible

Least Material Condition

- Applying LMC
- The resulting tolerance zones

Summary

- Tolerancing for competitive advantage