

4. Geometric Dimensions and Tolerance (GD&T)

Purpose of the Event

Contestants are expected to answer questions based on Geometric Dimensions and Tolerance.

Participant has to

- Demonstrate a thorough understanding of the fundamental geometric concepts.
- Interpret and explain the application of geometric symbols on drawings
- Explain how to select the datum reference frames properly
- Calculate the position and profile tolerances

Expected skills

ROUND 1	ROUND 2	ROUND 3
The participant has to know G D&T symbols and fundamental geometric concepts extensively	The participant has to be able to solve problems based on G D&T with the selection of the datum reference frames properly and also position and profile tolerances	Participant has to be able to solve an industrial problems based on G D&T using round 1 and round 2 knowledge.

Competition rules

- Only one answer per question is allowed
- Each question carries 1 mark
- For Round Two, the entry will only be entertained if the symbols are legible.
- No negative marking
- Use of guides in any form (electronic or paper) is prohibited.

Team size

- 2 students per team
- No limitations for number of teams in round one
- 3 teams will qualify for Round two
- The winner will be chosen according to the number of right questions answered