



Tolerance Analysis and Engineering Drawings with GD&T:

»Türkiye'de ilk «

- » After learning the "**Geometric Dimensioning and Tolerance**" basics, it is of great importance for our participants to see the application stages in creating engineering technical drawings with using GD&T. It is also necessary to make tolerance analyzes while creating a technical drawing. A 2-day training was created for these needs.

On the first day, after learning some of tolerancing basics then **tolerance analysis** without GD&T and tolerance analysis with GD&T will be shown. On the second day of the training, a technical drawing will be created by applying the basics of GD&T on the assembly and a **worst-case tolerance stack-up analysis** will be performed with the help of these technical drawings.

» Course content:

- > To learn tolerance analysis and tolerance stack-up analysis
- > General inspection of the assembly; Here, the interaction of the parts with each other in the assembly will be examined.
- > Determination of assembly functional tolerances; Tolerances required for the mechanical structure to fulfill its function will be determined if required.
- > Determination of datums of the parts; In order to meet the assembly tolerance conditions, the tolerance stack-up between the parts must be calculated. For this, datums must be determined according to the interaction of the parts in the assembly with each other.
- > Creating of part drawings; making technical drawings of the part with considering their datums. "Geometric Dimensioning and Tolerance" basics and necessary tolerance values are applied to ensure assembly and assembly tolerance.
- > Checking assembly functional tolerance with tolerance stack-up analysis; The tolerance stack-up is calculated with respect to parts which are associated with each other with the required datum information.



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Course Duration: 2 days (10:00 - 17:00, 45 min. lunch break)

Prerequisite: Participants must know about **GD&T basics**.

- › In case of request, statistical tolerance analysis will be explained on the 3rd day.



MECHASOFT STC Inc. - Manager
Expert Mechanical Engineer
Geometric Dimensioning and Tolerancing Instructor
Part Time Lecturer at Atılım University

› Our Instructor's References:

- › Turkey Society of Mechanical Engineers
- › AKG Thermotechnik Systems - Turkey
- › Hidrofil Engineering Inc
- › Harp Defense Systems
- › Milpower Defense Inc.
- › Kaban Machine Inc
- › Frekans Energy Inc.
- › Uzer Machine Inc.
- › Athapack Packaging Machines Inc.
- › Unova Engineering Inc.
- › B/S/H Home Appliances
- › GSI SLV-TR Welding Technology Center
- › CES Advanced Composites and Defense Technologies
- › Fiskksan Defense and Aerospace Inc.
- › Salman Engineering
- › MFK Machine
- › Aselsan - Sivas
- › Baykar Technologies

A certificate of participation is given at the end of the training.



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