

Training at PDSVISION

Training is one of the best investments a company can make; it is not a huge expense, it creates a better quality of work, it creates efficiency and it is fun! PDSVISION is proud to be a Certified Platinum Training Provider of PTC courses.

Whether you are a first-time or an experienced user we offer suitable training for your needs. Greater knowledge contributes to increased efficiency and higher quality of work.

Ansys Mechanical - Getting Started – Part 1

Course Length - 1 day

Course Description :

Overview:

This course is designed to provide new Ansys Mechanical users with their first look at the complete end-to-end procedure for conducting basic linear static structural analyses. Students will finish the course with a fundamental understanding of the simulation workflow and techniques for interacting with the Mechanical application, including graphics controls, selection, creation of basic loads and supports, solution, post-processing, and validation of the analysis model.

This course is the first in a two-part sequence. Part 1 focuses on the solution of a hypothetical design challenge, starting with a group discussion in which the problem statement is introduced and a modeling approach is agreed upon. The remaining topics follow the recommended simulation workflow, starting with geometry and material property modeling, connections among parts within the assembly, meshing, application of loads and supports, solution, validation of the model, and comparison of the results with the design criteria. The emphasis is on obtaining a baseline solution to the design challenge problem while becoming familiar with the steps in the overall modeling procedure. Parametric updates to the model are also introduced.

The second course in the sequence, Ansys Mechanical Getting Started – Part 2, expands on the Part 1 topics with numerous techniques that increase both the efficiency and the accuracy of the simulation model. Part 2 is strongly recommended for all students upon completion of Part 1.

Prerequisites:

A technical education and a background in the fundamentals of finite element analysis are recommended. An engineering degree is not required.

Target Audience:

Engineers and Designers

Teaching Method:

A major emphasis is placed on teaching by software demonstration and on the development of a solution to a design challenge from start to finish. Students will then have an opportunity to either repeat the instructor's steps or work on an additional design challenge workshop. The goal is to give students the knowledge and experience they'll need to confidently apply what they have learned to their own design challenges.