

Comprehensive ANSYS Structural Course

Duration: 3 days

Prerequisite: Comprehensive ANSYS Intro Course

The goal is to build upon the content of the introductory course and cover additional structural capabilities. This course is made up of excerpts from the Workbench Structural Non-Linear course, the ANSYS Basic Nonlinearities course, and the ANSYS Advanced Contacts and Fasteners course. Each of these courses is originally 2 days. By eliminating overlap and cutting unwanted details (ie. hyperelasticity), the total length is reduced to 3 days. (It should be noted that the section “Accessing ANSYS Options” has been removed because it is covered in the introductory course.)

A general outline of the topics to be covered follows:

- Nonlinearities (cause, how they’re solved...)
- Basic Contact (basic concepts, setting up contact pairs, formulations)
- Advanced Contact (non-linear contact settings, troubleshooting)
- Material Models (basic plasticity models)
- Solution Settings
- Post-Processing
- Nonlinear Diagnostics