



CATIA V5 TRAINING -STRUCTURAL ANALYSIS FOR PARTS & ASSEMBLY (G-FEA)

Who should

Engineer and designer

Duration:

attend:

3 days

Methodology:

Practical handson by using CATIA software

Introduction:

ΤΙΑ

Generative Part Structural Analysis will teach you how to use advanced Finite Element Analysis preprocessing techniques and post-processing tools, including the concept of defining virtual parts to avoid excessivegeometric modeling. You will learn how to perform frequency analysis on a single part, and how to use adaptive meshing to achieve predefined accuracy.

Objective:

Generative Part Structural Analysis

- Understand why, when, and how to use Finite Element Analysis
- Use different element types and shapes to mesh a part
- Apply clamp, slider, and iso-static restraints
- Define and customize the material properties of the parts to be analyzed
- Apply pressure, acceleration, and force density loads
- Define virtual parts to simplify the analysis

Generative Assembly Structural Analysis

- Understand what type of assembly analysis
- Define analysis connection between components
- Using existing assembly constraints to auto create connections
- Assign connection property that fit the joints.

Contents:

- Advanced Pre-Processing Tools
- Historic of Computation
- **Frequency Analysis**
- **Result Visualization**
- Computing a Frequency Case
- **Result Management**
- Computing with Adaptively



SOLUTION PARTNER PEARSON NUE HRDF

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