



## CATIA V5 Training - Fea Part & Assembly Structural Analysis

### WHO SHOULD ATTEND

Engineer and designer

### DURATION

3 days

### METHODOLOGY

Practical hands-on by using  
CATIA software

### PREREQUISITE

CATIA Fundamental

### INTRODUCTION:

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

### OBJECTIVES:

#### Generative Part Structural Analysis

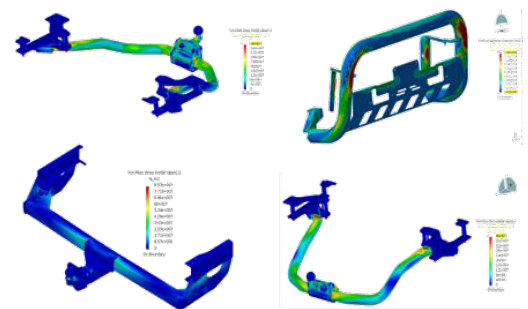
- Understand why, when, and how to use Finite Element Analysis
- Use different element types and shapes to mesh a part
- Apply clamp, slider, and iso-static restraints
- Define and customize the material properties of the parts to be analysed
- Apply pressure, acceleration, and force density loads
-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

### COURSE OUTLINE:

- Advanced Pre-Processing Tools
- Historic of Computation
- Frequency Analysis
- Result Visualization
- Result Management
- Computing with Adaptively Refinement
- Assembly Analysis Overview
- Analysis Connections and Property
- Analysis Assembly Management



### CONTACT

**MAWEA INDUSTRIES SDN BHD** 199501026999  
Certified ISO 9001:2015 QMS

✉ corp@mawea.com.my ✉ training@mawea.com.my ☎ +6013-285 3635

