



*Hands on, Measurable
Training Programs*

CATIA 3DEXPERIENCE Mechanical Design Fundamentals

Course Code	CAT-EN-3DF-F-15-181
Brand & Release	CATIA 3DEXPERIENCE R2018x
Duration	5 days
Level	Fundamental
Prerequisites	None. Mechanical Designers

Objectives:

This course will teach you the new interface and functionalities of the 3DEXPERIENCE Platform. You will learn how to connect to the platform, manage your projects and search documents. You will also learn how to create simple parts, assemblies and drawings. You will learn how to use different feature-based tools to build, review and modify a model. You will learn to create and analyze assemblies and to produce a drawing with different views. Finally, you will learn how to dimension and annotate the drawing views.

Class Structure:

Upon completion of this course you will be able to:

- Understand the 3DEXPERIENCE interface
- Connect to the 3DEXPERIENCE Platform
- Search, open and explore 3D data
- Import and export data using 3DXML
- Navigate in CATIA and use the Action Bar
- Create a New PLM Object
- Create and constrain 2D sketches
- Complete a 3D model using features
- Review and edit the features
- Create parameters and formulas in the model
- Create a new product and add components to it
- Move the components within a product
- Position components using assembly constraints
- Create simple projection views and section views
- Position the views on a drawing sheet
- Add dimensions and annotations to the views
- Finalize the drawing by adding borders and title blocks

Class Lessons:

3DEXPERIENCE Interface for Design/Engineering

Lesson 1: Profile Creation

Lesson 2: Feature-based Modeling

Lesson 3: Review and Modification

Lesson 4: Finalizing Design

Lesson 5: Creating and Managing Products

Lesson 6: Creating Drawings

Lesson 7: Master Exercise