

PART DESIGN-PRODUCT

Course Code	EDU-CAT- PDG
Version et Release	CATIA V5R19, V5R20, V6R2012
Duration	6 days
Prerequisite	Experience in mechanical drawing

Course Description

This course is a training on the basic functions used to model 3D objects, virtual prototypes, of simple and complex shape.

These virtual prototypes will be able to be verified and modified if need be, and be placed in a realistic context to allow adjustments with the other pieces of the assembly.

Proficiency Target

The scope of this course is to “model an object in three dimensions” while controlling the methodological recommendations that must be followed during the conception.

General Objective

In this course, the student will familiarize himself/herself with 3D modeling, and conceive objects of simple and complex shape, as well as analyze the hierarchical structure of the model.

Course Outline

- Initiation to the CATIA graphic environment
- Personalization of CATIA’s conception environment
- Creation of drawings and study of the constraints
- Drafting techniques
- Use of: Sketch-Based Features; Dress-Up Features; Surface-Based Features; Transformations Features; Boolean Operations