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| Course Code | EDU-CAT-E-V5F-F |
| Brand & Release | CATIA V5R17 |
| Duration | 5 days |
| Language | English |
| Level | Fundamentals |
| Method | ILT |

Training Material References

Instructor Foils: EDU-CAT-E-V5F-FI-V5R17
Foils: EDU-CAT-E-V5F-FF-V5R17

Objectives

- Understand the CATIA V5 interface
- Plan the construction of a part in order to properly convey its visual and functional aspects
- Create simple parts in CATIA V5
- Understand how to manage parts in the context of an assembly
- Produce simple drawings and assembly layouts

Participants' Profile

New CATIA V5 Mechanical Designers

Prerequisites

Mechanical design experience.
Experience with the Windows operating system.

Content

This course will introduce you to CATIA V5. It will teach you how to build simple parts and assemblies in CATIA, and how to make simple drawings of those parts and assemblies.

- Lesson 1: Introduction to CATIA
- Lesson 2: Profile Creation
- Lesson 3: Basic Features
- Lesson 4: Additional Features
- Lesson 5: Dress-Up Features
- Lesson 6: Reusing Data
- Lesson 7: Finalizing Design Intent
- Lesson 8: Assembly Design
- Lesson 9: Design in Context
- Lesson 10: Drafting ISO
- Lesson 10: Drafting ANSI

What is new in this release

Now a Companion course

Exercises

Ex. 1: Key Terms & Design Intent Exercise: 1A (20min) / All sectors
Ex. 2: Getting Started with CATIA Exercise: 1B (20min) / All sectors
Ex. 3: Case Study: Drill Press Master Project (20min) / All sectors
Ex. 4: Create New Part Exercise: 2A, 2B, 2C (40min) / All sectors
Ex. 5: Constraining a Sketch Exercise: 2D, 2E, 2F (40min) / All sectors
Ex. 6: Case Study: Support Plate (15min) / All sectors
Ex. 7: Creating with Basic Features Exercise: 3A, 3B, 3C (40min) / All sectors
Ex. 8: Part Investigation Exercise: 3D, 3E (20min) / All sectors
Ex. 9: Case Study: Engine Support (20min) / All sectors
Ex. 10: Create with Additional Features Exercise: 4A, 4B, 4C (45min) / All sectors
Ex. 11: Create Revolved Features Exercise: 4D, 4E, 4F (45min) / All sectors
Ex. 12: Create Shell and Thin Features Exercise: 4G, 4H, 4I (50min) / All sectors
Ex. 13: Case Study: Handle Block (20min) / All sectors
Ex. 14: Create Dress-up Features Exercise: 5A, 5B, 5C (50min) / All sectors
Ex. 15: Editing Features Exercise: 5D, 5E, 5F (50min) / All sectors
Ex. 16: Case Study: Casing Support (25min) / All sectors
Ex. 17: Reusing Data Exercise: 6A, 6B, 6C (50min) / All sectors
Ex. 18: Reusing Data Part 2 Exercise: 6D, 6E, 6F (50min) / All sectors
Ex. 19: Case Study: Engine (35min) / All sectors
Ex. 20: Finalizing Design Intent Exercise: 7A, 7B, 7C, 7D, 7E (80min) / All sectors
Ex. 21: Case Study: Table (35min) / All sectors
Ex. 22: Introduction to Assembly Design Exercise: 8A, 8B, 8C (50min) / All sectors
Ex. 23: Adding Assembly Design Components Exercise: 8D, 8E, 8F (60min) / All sectors
Ex. 24: Case Study: Handle Mechanism (35min) / All sectors
Ex. 25: Design in Context Exercise: 9A, 9B, 9C, 9D, 9E (120min) / All sectors
Ex. 26: Case Study: Chuck (30min) / All sectors
Ex. 27: Creating the Drawing Exercise: 10A, 10B, 10C (30min) / All sectors
Ex. 28: Case Study: Base (20min) / All sectors
Ex. 29: Master Project: Part Creation (60min) / All sectors
Ex. 30: Master Project: Finalize the Part (45min) / All sectors
Ex. 31: Master Project: Create an Assembly (60min) / All sectors
Ex. 32: Master Project: Edit a Part (40min) / All sectors
Ex. 33: Master Project: Create a Drawing (20min) / All sectors