Dassault Systèmes University

Version 5 Learning Paths

February 2016
How to read the learning path

Brand: CATIA V5
User profile: PLM V5 Foundations For Mechanical Engineering

Entry course:

Course title:
- ENOVIA V5 VP for Lifecycle Collaboration
- ENOVIA V5 VP for Engineering Collaboration
- ENOVIA V5 VP for Supply Chain Collaboration

Course duration & code:
- 16h, LCN_F
- 12h, LHF_F
- 6h, WPE_F

This course is optional:

Available formats:
- Instructor-led:
- Self-paced learning:
- Content available online:

Notes:
- ‘Essential’ in a course title means that the course is self-sufficient and includes fundamental and advanced topics
- To view a course description click on the course code (underlined blue)

See next page for more details
More information

Delivery formats:

- **Instructor led**: the class is delivered by an instructor, either face-to-face or distant (virtual) via an internet connection and a screen sharing session.

- **Self-paced**: the learner can learn alone with the courseware.

- In all cases, the courseware is available [online](https://companion.3ds.com) via Companion Learning Space.
V5 learning paths by user profile (1/5)

7. CATIA V5 - PLM V5 Foundations for All Profiles
8. CATIA V5 - PLM V5 Foundations For Mechanical Engineering
9. CATIA V5 - Mechanical Designer / Draftsmen
10. CATIA V5 – Mechanical Designer / CAD Designer 1/2
11. CATIA V5 - Mechanical Designer / CAD Designer 2/2
12. CATIA V5 - Mechanical Designer / Product Architect/Standards Manager 1/2
13. CATIA V5 - Mechanical Designer / Product Architect/Standards Manager 2/2
14. CATIA V5 - Mechanical Designer/IT System Engineer/CAD Administrator
15. CATIA V5 - CATIA V5 Aerospace/Designers
16. CATIA V5 - CATIA V5 Aerospace/Reviewers
17. CATIA V5 - Surface Designer/Styling Designer 1/2
18. CATIA V5 - Surface Designer/Styling Designer 2/2
19. CATIA V5 - Surface Designer/Aesthetical Shape Designer 1/3
V5 learning path by user profile (2/5)

20. CATIA V5 - Surface Designer/Aesthetical Shape Designer 2/3
21. CATIA V5 - Surface Designer/Aesthetical Shape Designer 3/3
22. CATIA V5 - Surface Designer/Functional Shape Designer 1/2
23. CATIA V5 - Surface Designer/Functional Shape Designer 2/2
24. CATIA V5 - Specialized Designer/Composite Designer
25. CATIA V5 - Specialized Designer/Composite Manufacturing Engineer
26. CATIA V5 - Specialized Designer/SHEETMETAL Design
27. CATIA V5 - Specialized Designer/Mold and Die Design 1/2
28. CATIA V5 - Specialized Designer/Mold and Die Design 2/2
29. CATIA V5 - Digital Mock Up/Design Reviewer
30. CATIA V5 - Digital Mock Up/Mechanism Simulation/Assembly Simulation 1/2
31. CATIA V5 - Digital Mock Up/Mechanism Simulation/Assembly Simulation 2/2
32. CATIA V5 - Digital Mock Up/Human Simulation Ergonomics
V5 learning path by user profile (3/5)

33. CATIA V5 - Digital Mock Up/Realistic Rendering/Perceived Quality Specialist
34. CATIA V5 - Analysis/Designer 1/2
35. CATIA V5 - Analysis Designer 2/2
36. CATIA V5 - Analysis/Engineer
37. CATIA V5 - Analysis/Specialist
38. CATIA V5 - Machining/Mill and Turn
39. CATIA V5 - Machining/Prismatic Machined Parts
40. CATIA V5 - Machining/Mold and Die 1/2
41. CATIA V5 - Machining/Mold and Die 2/2
42. CATIA V5 - Machining/Machined Part1/2
43. CATIA V5 - Machined Part 1/2
44. CATIA V5 - Electrical/Electronic Engineer
V5 learning path by user profile (4/5)

45. CATIA V5 - Electrical/Wire Harness Designer and Installer 1/2
46. CATIA V5 - Electrical Harness Designer and Installer 2/2
47. CATIA V5 - Electrical/Standard, Catalog and Specification Manager 1/2
48. CATIA V5 - Electrical/Standards, Catalog and Specification Manager 2/2
49. CATIA V5 - Electrical Documentation and Harness Manufacturing
50. CATIA V5 - Equipment and Systems/Space Reservation
51. CATIA V5 - Equipment and Systems/System Routing Engineer
52. CATIA V5 - Tubing/System Engineer (2D)
53. CATIA V5 - Tubing/System Designer (3D)
54. CATIA V5 - Tubing/Standards, Catalog and Specification Administrator 1/2
55. CATIA V5 - Tubing/Standards, Catalogs and Specification Administrator 2/2
56. CATIA V5 - Piping/System Engineer
57. CATIA V5 - Piping Designer
58. CATIA V5 – Piping/Standards, Catalog and Specification Manager 1/2
V5 learning path by user profile (5/5)

59. CATIA V5 - Piping/Standards, Catalog and Specification Manager 2/2
60. CATIA V5 - Heating Ventilating air Conditioning/System Engineer
61. CATIA V5 - Heating Ventilating Air-Conditioning HVAC Designer
62. CATIA V5 - Heating Ventilating Air-Conditioning/Standards, Catalog and Specification Administrator 1/2
63. CATIA V5 - Heating Ventilating Air-Conditioning/Standards, Catalog and Specification Administrator 2/2
64. CATIA V5 - Shipbuilding Hull Structure/Functional Designer 1/2
65. CATIA V5 - Shipbuilding Hull Structure/Functional Designer 2/2
66. CATIA V5 - Shipbuilding Hull Structure/Standards, Catalog and Specification Administrator 1/2
67. CATIA V5 - Shipbuilding Hull Structure/Standards, Catalog and Specification Administrator 2/2
68. CATIA V5 - Compartment and Access/Designer, Standards, Catalog and specifications Manager
69. CATIA V5 - IT/System Administrator/IT System Engineer
70. CATIA V5 - CATIA V5 to V6 Transition/Mechanical Designer
PLM V5 Foundations For All Profiles

- **CATIA V5 Fundamentals**
  - 40h

- **ENOVIA V5 VPM Fundamentals**
  - 16h

- **ENOVIA SmarTeam Fundamentals**
  - 4h
  - **ENOVIA SmarTeam Editor**
    - 16h
  - **ENOVIA SmarTeam Web Editor**
    - 8h
PLM V5 Foundations For Mechanical Engineering

- **CATIA V5 Mechanical Design Expert**
  - 40 h
  - VSE

- **ENOVIA V5 VPM for Lifecycle Collaboration**
  - 16h
  - LCN_F

- **ENOVIA V5 VPM for Engineering Collaboration**
  - 12h
  - LEH_F

- **ENOVIA V5 VPM for Supply Chain Collaboration**
  - 8h
  - WPE_F

- **ENOVIA SmarTeam - CATIA Integration**
  - 8h
  - TPU_F

Optional
CATIA V5

Mechanical Designer / Draftsmen

PLM Foundations for All Profiles

CATIA V5 Mechanical Detail Drafting
16h DDR_F

3D Functional Tolerancing and Annotation
16h FTA_F

Advanced Drafting and Customization
16h DRA_A
CATIA V5

**Mechanical Designer / CAD Designer - 1/2**

- **PLM Foundations for All Profiles**
- **PLM Foundations for Mechanical Engineering**
- **Knowledge Advisor**
  - 8h  KWA_F
- **Product Knowledge Template**
  - 8h  PKT_F
- **Knowledge Expert**
  - 4h  KWE_F
CATIA V5

Mechanical Designer / CAD Designer - 2/2

… continued

Optional

Product Engineering Optimizer
8h
PEO_F

2D Layout for 3D Design
8h
LO1_F

3D Functional Tolerancing and Annotation
16h
FTA_F

CATIA V5 Analysis
8h
V5A_F

Generative Dynamic Response Analysis
4h
GDY_F

CATIA V6 Automation
32h
VBA_F
CATIA V5

**Mechanical Designer / Product Architect / Standards Manager - 1/2**

- **PLM Foundations for All Profiles**
  - Knowledge Advisor
    - 8h
    - KWA_F
  - Product Knowledge Template
    - 8h
    - PKT_F
  - Knowledge Expert
    - 4h
    - KWE_F
  - Product Engineering Optimizer
    - 8h
    - PEO_F

- **PLM Foundations for Mechanical Engineering**
CATIA V5

Mechanical Designer / Product Architect / Standards Manager - 2/2

… continued

### Optional

#### 2D Layout for 3D Design

- **Product Engineering Optimizer**
  - **8h**
  - PEO_F

- **CATIA V5 Analysis**
  - **8h**
  - V5A_F

- **Generative Dynamic Response Analysis**
  - **4h**
  - GDY_F

- **CATIA V6 Automation**
  - **32h**
  - VBA_F
CATIA V5

Mechanical Designer / IT System Engineer/CAD Administrator

PLM Foundations for All Profiles

V5 Administration

- 24h ADM_F
- 16h DRA_A

Advanced Drafting and Customization
CATIA V5

CATIA V5 Aerospace / Designers

CATIA V5 Foundations for Aerospace Part Designers

40h | V5AeD_F

CATIA V5 Foundations for Aerospace Assembly Designers

16h | V5AeA_F
CATIA V5
CATIA V5 Aerospace / Reviewers

CATIA V5 Foundations for Aerospace Part Reviewers

16h  V5AeR_F
CATIA V5
Surface Designer /Styling Designer -1/2

PLM Foundations for All Profiles

CATIA V5 for Surfaces
24h V5S_F

CATIA Surface Design Expert
16h GSD_A

CATIA Imagine and Shape
8h IMA_F

FreeStyle Shaper, Optimizer and Profiler
12h FSS_F

FreeStyle Sketch Tracer
4h FSK_F

Methodology for Cloud to Surface
8h CTS_F

Optional
CATIA V5

Surface Designer / Styling Designer - 2/2

… continued

- STL Rapid Prototyping
  - 2h

- Real Time Rendering
  - 8h

- Photo Studio
  - 4h

Optional

- Photo Studio Optimizer
  - 4h
CATIA V5

**Surface Designer / Aesthetical Shape Designer - 1/3**

PLM Foundations for All Profiles

- **CATIA V5 for Surfaces**
  - 24h
  - V5S-F

- **OR**
  - **CATIA Surface Design Expert**
  - 16h
  - GSD_A

- **Healing Assistant**
  - 8h
  - HA1_F

- **Digitized Shaped Editor**
  - 8h
  - DSE_F

- **Quick Surface Reconstruction**
  - 8h
  - QSR_F
CATIA V5

Surface Designer / Aesthetical Shape Designer - 2/3

… continued
CATIA V5

Surface Designer / Aesthetical Shape Designer - 3/3

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**CATIA V5**

*Surface Designer / Functional Shape Designer - 1/2*

**PLM Foundations for All Profiles**

**CATIA V5 for Surfaces**
- 24h V5S_F

**or**

**CATIA Surface Design Expert**
- 16h GSD_A

**Functional Molded Parts**
- 8h FMP_F

**Generative Shape Optimizer**
- 8h GSO_F

**Developed Shapes**
- 4h DL1_F

**Introduction to Mathematical Concepts of CATIA V5**
- 4h MTH_F

Optional
## CATIA V5

### Surface Designer / Functional Shape Designer - 2/2

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<td>Digitized Shaped Editor</td>
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<td>DSE_F</td>
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<tr>
<td>Quick Surface Reconstruction</td>
<td>8h</td>
<td>QSR_F</td>
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CATIA V5

Specialized Designer / Composite Designer

PLM Foundations for All Profiles

Composites Part Engineering

24h

CPE_F

Composites Grid Approach

24h

CPG_F
CATIA V5

Specialized Designer / Composite Manufacturing Engineer

PLM Foundations for All Profiles

Composites Part Engineering
- 24h CPE_F

Composites Part Manufacturing
- 16h CPM_F
CATIA V5

Specialized Designer / Sheetmetal Design

PLM Foundations for All Profiles

CATIA Generative Sheetmetal Design

- 8h SMD_F

Aerospace Sheetmetal Design

- 8h ASL_F
CATIA V5

Specialized Designer / Mold and Die Design - 1/2
**CATIA V5**

**Specialized Designer / Mold and Die Design - 2/2**

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<td>Tooling Design</td>
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<td>TG1_F</td>
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<tr>
<td>Mold Tooling Design</td>
<td>8h</td>
<td>MTD_F</td>
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CATIA V5

**Digital Mock Up / Design Reviewer**

- **PLM Foundations for All Profiles**
- **Digital Mock-Up Basics**
  - 4h DMB_F
- **Digital Mock-Up Navigator**
  - 8h DMN_F
- **CATIA/ENOVIA V5 Mock-Up Space Analysis**
  - 4h SPA_F
- **Digital Mock-Up Optimizer**
  - 4h DMO_F
- **DMU Fitting Simulator**
  - 4h FIT_F

Optional
CATIA V5

Digital Mock Up / Mechanism Simulation / Assembly simulation - 1/2

PLM Foundations for All Profiles

Digital Mock-Up Basics
- 4h
- DMB_F

Digital Mock-Up Navigator
- 8h
- DMN_F

CATIA/ENOVIA V5 Mock-Up Space Analysis
- 4h
- SPA_F
CATIA V5

Digital Mock Up / Mechanism Simulation / Assembly simulation - 2/2

... continued

Digital Mock-Up Optimizer

4h DMO_F

DMU Kinematics Simulator

8h KIN_F

DMU Fitting Simulator

4h FIT_F

Optional
CATIA V5

**Digital Mock Up / Human Simulation Ergonomics**

- **PLM Foundations for All Profiles**

  - **Digital Mock-Up Basics**
    - 4h
    - DMB_F

  - **Digital Mock-Up Navigator**
    - 8h
    - DMN_F

  - **CATIA Human Modeling**
    - 16h
    - HMN_F
CATIA V5
Digital Mock Up / Realistic Rendering / Perceived Quality Specialist

- PLM Foundations for All Profiles
  - Digital Mock-Up Basics
    - 4h DMB_F
  - Digital Mock-Up Navigator
    - 8h DMN_F
  - CATIA Real Time Rendering
    - 8h RTR_F
  - Photo Studio
    - 4h PHS_F
  - Photo Studio Optimizer
    - 4h PSO_F
CATIA V5

Analysis / Designer - 1/2

- **PLM Foundations for All Profiles**
  - **CATIA Surface Design**
    - 8h, GS1_F
    - **Introduction to the Mathematical Concepts of CATIA**
      - 4h, MTH_F
      - **FreeStyle Shaper, Optimizer and Profiler**
        - 12h, FSS_F

Optional
CATIA V5

Analysis / Designer - 2/2

... continued
CATIA V5

Analysis / Engineer

PLM Foundations for All Profiles

CATIA V5 Analysis
8h V5A_F

ELFINI Structural Analysis
8h EST_F

Introduction to Nonlinear Structural Analysis and Thermal Analysis
16h ANL_F

Product Engineering Optimizer
8h PEO_F
CATIA V5
Analysis / Specialist

PLM Foundations for All Profiles

CATIA V5 Analysis
8h V5A_F

ELFINI Structural Analysis
8h EST_F

FEM Surface
16h FMS_F

FEM Solid
4h FMD_F

Product Engineering Optimizer
8h PEO_F
## CATIA V5

**Machining / Mill and Turn**

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<tr>
<td>CATIA Surface Design</td>
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<td>GS1_F</td>
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<tr>
<td>Numerical Control Infrastructure</td>
<td>16h</td>
<td>NCI_F</td>
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<tr>
<td>Prismatic Machining</td>
<td>16h</td>
<td>PMG_F</td>
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<td>Lathe Machining</td>
<td>8h</td>
<td>LMG_F</td>
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<tr>
<td>Multi-Slide Lathe Machining</td>
<td>8h</td>
<td>MLG_F</td>
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CATIA V5

Machining / Prismatic Machined Parts

PLM Foundations for All Profiles

CATIA Surface Design
8h GS1_F

Numerical Control Infrastructure
16h NCI_F

Prismatic Machining
16h PMG_F

Prismatic Machining Preparation Assistant
4h MPA_F

NC Machine Tool Simulation
8h MSG_F

NC Machine Tool Builder
20h MBG_F
CATIA V5

Machining / Mold and Die - 2/2

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<th>NC Machine Tool Builder</th>
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<td>8h</td>
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CATIA V5

Machining / Machined Part - 1/2

PLM Foundations for All Profiles

CATIA Surface Design
8h GS1_F

Numerical Control Infrastructure
16h NCI_F

Prismatic Machining
16h PMG_F

Surface Machining
16h SMG_F

Multi-Axis Surface Machining
8h MMG_F
CATIA V5

Machining / Machined Part - 2/2

… continued
CATIA V5

Electrical / Electronic Engineer

PLM Foundations for All Profiles

CATIA Product Design
8h  ASM_F

Circuit Board Design
4h  CBD_F

CATIA Generative Sheetmetal Design
8h  SMD_F
CATIA V5

*Electrical / Wire Harness Designer and Installer - 1/2*

- **PLM Foundations for All Profiles**
  - **CATIA Product Design Expert**
    - 16h ASM_A
  - **Electrical Librarian and Harness Installation**
    - 16h ELI_F
  - **Electrical Wire Routing**
    - 4h EWR_F
CATIA V5

*Electrical / Wire Harness Designer and Installer - 2/2*

… continued

### Knowledge Advisor

- **8h**
- **KWA_F**

### Product Knowledge Template

- **8h**
- **PKT_F**

### Knowledge expert

- **4h**
- **KWE_F**

### Product Engineering Optimizer

- **8h**
- **PEO_F**
CATIA V5

Electrical / Standards, Catalog and Specification Manager - 1/2

PLM Foundations for All Profiles

CATIA Product Design Expert
16h ASM_A

Electrical Librarian and Harness Installation
16h ELI_F

Advanced Drafting and Customization
2h DRA_A
CATIA V5

**Electrical / Standards, Catalog and Specification Manager - 2/2**

… continued
CATIA V5

Electrical / Electrical Documentation and Harness Manufacturing

PLM Foundations for All Profiles

CATIA Detail Drafting
16h DDR_F

Electrical Harness Flatening
8h EHF_F

Advanced Drafting Customization
16h DRA_A
CATIA V5

Equipment and Systems / Space Reservation

PLM Foundations for All Profiles

Equipment and Systems Environment

1h ES1_F

Generic Routing

8h ES2_F
CATIA V5

Equipment and Systems / System Routing Engineer

- PLM Foundations for All Profiles
- Equipment and Systems Environment
  - 1h ES1_F
- Generic Routing
  - 8h ES2_F
CATIA V5

Tubing / System Engineer (2D)

PLM Foundations for All Profiles

Equipment and Systems Environment
1h
ES1_F

CATIA Generative Drafting Fundamentals (ISO)
8h
GDRI_F

Tubing Design
8h
TUB_F
CATIA V5

**Tubing / System Designer (3D)**

- **PLM Foundations for All Profiles**
  - 1h ES1_F

- **Equipment and Systems Environment**
  - 8h ES2_F

- **Generic Routing**
  - 8h ES2_F

- **Tubing Design**
  - 8h TUB_F
CATIA V5

Tubing / Standards, Catalog & Specification Administrator - 1/2

PLM Foundations for All Profiles

Equipment and Systems Environment
- 1h ES1_F

Generic Routing
- 8h ES2_F

Tubing Diagrams
- 8h TUD_F
CATIA V5
*Tubing/* Standards, Catalog & Specification Administrator - 2/2
… continued

- **Tubing Design**
  - 8h TUB_F

- **Equipment and Systems Setup and Administration**
  - 8h ESA_F

- **Tubing Catalogs (2D Diagrams and 3D Design)**
  - 32h TUS_F
CATIA V5

Piping / System Engineer

- PLM Foundations for All Profiles
- Equipment and Systems Environment
  - 1h ES1_F
- Piping and Instrumentation Diagrams
  - 4h PID_F
CATIA V5

Piping / Piping Designer

- PLM Foundations for All Profiles
- Equipment and Systems Environment
  - 1h ES1_F
- Generic Routing
  - 8h ES2_F
- Equipment Arrangement
  - 4h EQT_F
- Piping Design
  - 8h PIP_F
CATIA V5

Piping / Standards, Catalog and Specification Manager - 1/2

PLM Foundations for All Profiles

Equipment and Systems Environment
- 1h ES1_F

Generic Routing
- 8h ES2_F

Equipment Arrangement
- 4h EQT_F

Piping and Instrumentation Diagrams
- h PID_F

Piping Design
- 8h PIP_F
CATIA V5

Piping / Standards, Catalog and Specification Manager - 2/2

… continued
CATIA V5

Heating Ventilating Air-Conditioning / System Engineer

PLM Foundations for All Profiles

Equipment and Systems Environment

1h ES1_F

HVAC Diagrams

8h HVD_F
CATIA V5
Heating Ventilating Air-Conditioning / HVAC Designer

- PLM Foundations for All Profiles
- Equipment and Systems Environment
  - 1h ES1_F
- Generic Routing
  - 8h ES2_F
- Equipment Arrangement
  - 4h EQT_F
- HVAC Design
  - 8h HVA_F
CATIA V5

Heating Ventilating Air-Conditioning / Standards, Catalog and Specification Administrator - 1/2

- PLM Foundations for All Profiles
  - Equipment and Systems Environment
    - 1h ES1_F
  - Generic Routing
    - 8h ES2_F
  - Equipment Arrangement
    - 4h EQT_F
  - HVAC Diagrams
    - 8h HVD_F
  - HVAC Design
    - 8h HVA_F
CATIA V5

Heating Ventilating Air-Conditioning / Standards, Catalog and Specification Administrator - 2/2

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<td>HVAC Setup and Catalogs</td>
<td>40h</td>
<td>HVS_F</td>
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CATIA V5

Shipbuilding Hull Structure / Functional Designer - 1/2

PLM Foundations for All Profiles

CATIA Surface Design
- 8h
  8h GS1_F

Equipment and Systems Environment
- 1h
  1h ES1_F

Generic Routing
- 8h
  8h ES2_F
### CATIA V5

**Shipbuilding Hull Structure / Functional Designer - 2/2**

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<td>Structure Manufacturing Preparation</td>
<td>32h</td>
<td>SMP_F</td>
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CATIA V5

Shipbuilding Hull Structure / Standards, Catalog and Specification Administrator - 1/2

PLM Foundations for All Profiles

CATIA Surface Design
- 8h GS1_F

Equipment and Systems Environment
- 1h ES1_F
CATIA V5

Shipbuilding Hull Structure / Standards, Catalog and Specification Administrator - 2/2

… continued

- Generic Routing
  - 8h
  - ES2_F

- Equipment and Systems Setup & Administration
  - 8h
  - ESA_F

- Structure Functional and Design Setup
  - 24h
  - STS_F
CATIA V5

Compartment and Access / Designer, Standards, Catalog and Specifications Manager
CATIA V5

IT/System Administrator / IT System Engineer

PLM Foundations for All Profiles

CATIA V5 Administration

24h | ADM_F
CATIA V5

CATIA V5 to V6 Transition / Mechanical Designer

CATIA V5 Fundamentals
- 40 h
- V5F_F

CATIA V5 to V6 Mechanical Design Transition
- 16h
- V6MT_F