Design/Engineering

3DEXPERIENCE R2016x Learning Paths

September 2016
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.

In all cases, the courseware is available **online** via **Companion Learning Space**: [https://companion.3ds.com](https://companion.3ds.com)
Learning Paths by role

- CATIA Companion for Creative Designer
- CATIA Companion for Freeform Surface Modeler
- CATIA Companion for Transportation Designer
- CATIA Companion for Electrical 3D Design Engineering
- CATIA Companion for Electrical Designer
- CATIA Companion for Tubing Designer
- CATIA Companion for Class A Modeler
- CATIA Companion for Class A Expert
- CATIA Companion for Systems Architecture Designer
- CATIA Companion for Dynamic Systems Designer
- CATIA Companion for Mechatronic Systems Designer
- CATIA Companion for 3DMaster Conceptual Designer
- CATIA Companion for Mechanical Designer
- CATIA Companion for Mechanical & Shape Designer
- CATIA Companion for Mechanical Part Designer
### Learning Paths by role

- CATIA  Companion for Mechanism Simulation Designer
- CATIA  Companion for 3DMaster Designer
- CATIA  Companion for Shape Designer
- CATIA  Companion for Design Review & Preparation
- CATIA  Companion for Sheet Metal Designer
- CATIA  Companion for Machine & Equipment Designer
- CATIA  Companion for Shaped Machine & Equipment Designer
- CATIA  Companion for Composites Designer
- CATIA  Companion for Composites Manufacturer 1/5
- CATIA  Companion for Composites Engineer
- CATIA  Companion for Composites Designer & Manufacturer
- CATIA  Companion for Fluid 3D Systems Designer
- CATIA  Companion for Template Designer
- CATIA  Companion for Chassis Designer
## Learning Paths by role

<table>
<thead>
<tr>
<th>CATIA</th>
<th>Companion for Powertrain Designer</th>
</tr>
</thead>
<tbody>
<tr>
<td>CATIA</td>
<td>Companion for Product Industrial Designer</td>
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<tr>
<td>CATIA</td>
<td>Companion for Physical Prototyper/Clay Modeler</td>
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<tr>
<td>CATIA</td>
<td>Companion for Composites Braiding Designer</td>
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<td>CATIA</td>
<td>Companion for Plastic Mechanical Designer</td>
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<td>CATIA</td>
<td>Companion for Reverse Shape Optimizer</td>
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<td>CATIA</td>
<td>Companion for Interior Designer</td>
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<tr>
<td>CATIA</td>
<td>Companion for Preliminary Steel Structure Designer</td>
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<td>CATIA</td>
<td>Companion for Steel Structure Designer</td>
</tr>
<tr>
<td>CATIA</td>
<td>Companion for Product Enclosure Designer</td>
</tr>
</tbody>
</table>
CATIA

Companion for Creative Designer – CCS - 1/2

The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

Gateway to the 3DEXPERIENCE Platform
8 h
GTX_F*

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.

Transition to the 3DEXPERIENCE Platform for Mechanical Designers
16 h
3DMT_F

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »
The following courses are also recommended. They can be taken in any order.

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>CATIA 2D Layout for 3D Design Essentials</td>
<td>8 h</td>
<td>L01_F</td>
</tr>
<tr>
<td>CATIA Free Style Shape Design Essentials</td>
<td>12 h</td>
<td>FSS_F</td>
</tr>
<tr>
<td>CATIA Natural Assembly Essentials</td>
<td>4 h</td>
<td>LCP_F</td>
</tr>
<tr>
<td>CATIA Natural Sketch Essentials</td>
<td>8 h</td>
<td>NTS_F</td>
</tr>
<tr>
<td>CATIA Know-how Reuse Essentials</td>
<td>4 h</td>
<td>KE1_F</td>
</tr>
<tr>
<td>ENOVIA Design Review Essentials</td>
<td>4 h</td>
<td>REEV_F</td>
</tr>
<tr>
<td>CATIA Imagine and Shape Essentials</td>
<td>16 h</td>
<td>IMA_F</td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

- **CATIA R2016x Update for Shape Designers**
  - 8 h
  - UHD16_U

- **CATIA Generative Shape Design Essentials**
  - 24 h
  - GSD_F

- **CATIA Shape Healing Essentials**
  - 8 h
  - HA1_F

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.

- **Transition to the 3DEXPERIENCE Platform for Surface Designers**
  - 8 h
  - 3DST_F
The following courses are also recommended. They can be taken in any order:

- **CATIA Natural Shape Essentials**
  - 8h LSP_F

- **CATIA Generative Shape Develop Essentials**
  - 4h DL1_F

- **CATIA FreeStyle Shape Design Essentials**
  - 12h FSS_F

- **CATIA Digitized Shape Preparation Essentials**
  - 4h DSE_F

- **CATIA Mechanical Surface Refinement Essentials**
  - 2h SRF_F

- **CATIA Natural Sketch Essentials**
  - 8h NTS_F

- **CATIA Imagine and Shape Essentials**
  - 16h IMA_F

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**CATIA Companion for Freeform Surface Modeler – FFS - 2/2**
The following courses are also recommended. They can be taken in any order.

**Gateway to the 3DEXPERIENCE Platform**
- 8 h | GTX_F* [Play Button]

**Transition to the 3DEXPERIENCE Platform for Mechanical Designers**
- 16 h | 3DMT_F [Play Button]

**Transition to the 3DEXPERIENCE Platform for Surface Designers**
- 8 h | 3DST_F [Play Button]

**CATIA R2016x Update for Mechanical Designers**
- 8 h | UMD16_U [Play Button]

**CATIA R2016x Update for Shape Designers**
- 4 h | UHD16_U [Play Button]

**CATIA Generative Shape Design Essentials**
- 24 h | GSD_F [Play Button]

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »

UMD16_U and UHD16_U courses are also recommended for students who are familiar with the 3D15X Design Apps.
The following courses are also recommended. They can be taken in any order.

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<td>8 h</td>
<td>ASD_F</td>
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<tr>
<td>CATIA Assembly Design Expert</td>
<td>16 h</td>
<td>ASD_A</td>
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<td>CATIA Drafting Essentials</td>
<td>24 h</td>
<td>GDR_F</td>
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<td>CATIA 2D Layout for 3D Design Essentials</td>
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<td>L01_F</td>
</tr>
<tr>
<td>CATIA Generative Shape Develop Essentials</td>
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<td>DSE_F</td>
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<td>CATIA FreeStyle Shape Design Essentials</td>
<td>12 h</td>
<td>FSS_F</td>
</tr>
<tr>
<td>CATIA Imagine and Shape Essentials</td>
<td>16 h</td>
<td>IMA_F</td>
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<tr>
<td>CATIA ICEM Shape Design Essentials</td>
<td>40 h</td>
<td>ICM_F</td>
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<tr>
<td>CATIA ICEM Shape Morphing Essentials</td>
<td>12 h</td>
<td>IEX_F</td>
</tr>
<tr>
<td>CATIA Natural Sketch Essentials</td>
<td>8 h</td>
<td>NTS_F</td>
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The following courses are also recommended. They can be taken in any order.

- **ENOVIA Design Review Essentials**
  - 4 h
  - REEV_F

- **CATIA Know-how Reuse Essentials**
  - 4 h
  - KE1_F

- **CATIA Natural Assembly Essentials**
  - 4 h
  - LCP_F

- **CATIA Shape Healing Essentials**
  - 8 h
  - HA1_F
The following courses are recommended for new 3DEXPERIENCE Platform users. They should be taken prior to taking any other courses.

**Gateway to the 3DEXPERIENCE Platform**
- **8 h**
- **GTX_F***

**Transition to the 3DEXPERIENCE Platform for Mechanical Designers**
- **16 h**
- **3DMT_F***

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »

The following courses are also recommended. They can be taken in any order.

**CATIA Mechanical Design Fundamentals**
- **32 h**
- **3DF_F***

**CATIA Mechanical Design Expert**
- **32 h**
- **3DE_A***

**CATIA R2016x Update for Mechanical Designers**
- **8 h**
- **UMD16_U***

**CATIA Generative Wireframe and Surface Essentials**
- **20 h**
- **GS1_F***

UMD16_U course is also recommended for students who are familiar with the 3D15X Design Apps.

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »
The following courses are also recommended. They can be taken in any order.

**CATIA Natural Shape Essentials**
- 8h
- LSP_F

**CATIA Part Design Fundamentals**
- 24h
- PDG_F

**CATIA Part Design Expert**
- 8h
- PDG_A

**CATIA Assembly Design Fundamentals**
- 24h
- ASD_F
The following courses are also recommended. They can be taken in any order.

- **CATIA Assembly Design Expert**  
  16 h  
  ASD_A

- **CATIA Drafting Essentials**  
  24 h  
  GDR_F

- **CATIA Mechanical Systems Design Essentials**  
  4 h  
  KIM_F

- **CATIA Natural Assembly Essentials**  
  4 h  
  LCP_F
The following courses are also recommended. They can be taken in any order.

- **CATIA 2D Layout for 3D Design Essentials**
  - 8 h
  - LO1_F

- **CATIA Bent Part Design Essentials**
  - 4 h
  - SMB_F

- **CATIA Electrical 3D Design Essentials**
  - 24 h
  - EHI_F
The following courses are also recommended. They can be taken in any order.

- **CATIA Know-how Reuse Essentials**
  - 4 h
  - KE1_F

- **ENOVIA Design Review Essentials**
  - 4 h
  - REEV_F
The following courses are also recommended. They can be taken in any order.

**CATIA Electrical 3D Design Essentials**

- 24 h
- EHI_F
The following courses are also recommended. They can be taken in any order.

**CATIA Piping and Tubing 3D Design Essentials**

- 16 h
- PIP_F
CATIA
Companion for Class A Modeler - ICD - 1/3

The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

**Gateway to the 3DEXPERIENCE Platform**
8 h | GTX_F*

**Transition to the 3DEXPERIENCE Platform for Mechanical Designers**
16 h | 3DMT_F

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.

**UMD16_U course is also recommended for students who are familiar with the 3D15X Design Apps**

**The following courses are also recommended. They can be taken in any order.**

**CATIA R2016x Update for Mechanical Designers**
8 h | UMD16_U

**CATIA Generative Wireframe and Surface Essentials**
20 h | GS1_F

**CATIA Shape Healing Essentials**
8 h | HA1_F

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »
The following courses are also recommended. They can be taken in any order.

**CATIA Natural Shape Essentials**
- 8 h
- LSP_F

**CATIA FreeStyle Shape Design Essentials**
- 12 h
- FSS_F

**CATIA Generative Shape Develop Essentials**
- 4 h
- DL1_F

**CATIA Natural Sketch Essentials**
- 8 h
- NTS_F
The following courses are also recommended. They can be taken in any order.

- **CATIA ICEM Shape Design Essentials**
  - 40 h
  - ICM_F

- **CATIA Know-how Reuse Essentials**
  - 4 h
  - KE1_F

- **CATIA Imagine and Shape Essentials**
  - 16 h
  - IMA_F

- **ENOVIA Design Review Essentials**
  - 4 h
  - REEV_F
The following courses are also recommended. They can be taken in any order.

- **CATIA ICEM Shape Morphing Essentials**
  - 12 h
  - IEX_F

- **CATIA Digitized Shape Preparation Essentials**
  - 4 h
  - DSE_F
CATIA

Companion for Systems Architecture Designer - SAT

The following courses are also recommended. They can be taken in any order.

- **CATIA Functional and Logical Design Fundamentals**
  - 16 h
  - FLE_F

- **CATIA Functional and Logical Design Advanced**
  - 8 h
  - FLE_A

- **CATIA Know-how Reuse Essentials**
  - 4 h
  - KE1_F

- **ENOVIA Design Review Essentials**
  - 4 h
  - REEV_F

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*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »

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The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

- **Gateway to the 3DEXPERIENCE Platform**
  - 8 h
  - GTX_F*
CATIA

 Companion for Dynamic Systems Designer - SDY

The following courses are also recommended. They can be taken in any order.

- **CATIA Functional and Logical Design Fundamentals**
  - 16 h
  - FLE_F

- **CATIA Functional and Logical Design Advanced**
  - 8 h
  - FLE_A

- **CATIA Dymola Behavior Modeling Essentials**
  - 16 h
  - DBD_F

- **CATIA Know-how Reuse Essentials**
  - 4 h
  - KE1_F

- **ENOVIA Design Review Essentials**
  - 4 h
  - REEV_F

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The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

- **Gateway to the 3DEXPERIENCE Platform**
  - 8 h
  - GTX_F*

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »
The following courses are also recommended. They can be taken in any order.

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<th>Course Description</th>
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<tbody>
<tr>
<td>CATIA Mechanical Design Fundamentals</td>
<td>32 h</td>
<td>3DF_F</td>
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<tr>
<td>CATIA Mechanical Design Expert</td>
<td>32 h</td>
<td>3DE_A</td>
</tr>
<tr>
<td>CATIA R2016x Update for Mechanical Designers</td>
<td>8 h</td>
<td>UMD16_U</td>
</tr>
</tbody>
</table>

*Note: When searching for GTX_F course for 3Experi...
The following courses are also recommended. They can be taken in any order.

**CATIA Natural Shape Essentials**
- 8h
- LSP_F

**CATIA Part Design Fundamentals**
- 24h
- PDG_F

**CATIA Part Design Fundamentals**
- 8h
- PDG_A

**CATIA Assembly Design Fundamentals**
- 24h
- ASD_F

**CATIA Assembly Design Expert**
- 16h
- ASD_A

**CATIA Drafting Essentials**
- 24h
- GDR_F

**CATIA Mechanical Systems Design Essentials**
- 4h
- KIM_F

**CATIA Mechanical Systems Experience**
- 8h
- KIN_F
The following courses are also recommended. They can be taken in any order.

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<td>CATIA 2D Layout for 3D Design Essentials</td>
<td>8 h</td>
<td>LO1_F</td>
</tr>
<tr>
<td>CATIA Functional and Logical Design Fundamentals</td>
<td>16 h</td>
<td>FLE_F</td>
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<td>ENOVIA Design Review Essentials</td>
<td>4 h</td>
<td>REEV_F</td>
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DASSAULT SYSTÈMES \ The 3DEXPERIENCE® Company
The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

Gateway to the 3DEXPERIENCE Platform
- 8 h
- GTX_F*

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.

Transition to the 3DEXPERIENCE Platform for Mechanical Designers
- 16 h
- 3DMT_F

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »

The following courses are also recommended. They can be taken in any order.

CATIA R2016x Update for Mechanical Designers
- 8 h
- UMD16_U

CATIA Generative Wireframe and Surface Essentials
- 20 h
- GS1_F

CATIA Natural Shape Essentials
- 8 h
- LSP_F

UMD16_U course is also recommended for students who are familiar with the 3D15X Design Apps.
The following courses are also recommended. They can be taken in any order.

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<td>CATIA Part Design Fundamentals</td>
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<td>PDG_F</td>
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<tr>
<td>CATIA Part Design Expert</td>
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<td>PDG_A</td>
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**Gateway to the 3DEXPERIENCE Platform**

- 8 h
- GTX_F*

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.

**Transition to the 3DEXPERIENCE Platform for Mechanical Designers**

- 16 h
- 3DMT_F

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »

UMD16_U course is also recommended for students who are familiar with the 3D15X Design Apps

The following courses are also recommended. They can be taken in any order.

**CATIA R2016x Update for Mechanical Designers**

- 8 h
- UMD16_U

**CATIA Mechanical Design Fundamentals**

- 32 h
- 3DF_F

**CATIA Mechanical Design Expert**

- 32 h
- 3DE_A
The following courses are also recommended. They can be taken in any order.

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<td>ASD_A</td>
</tr>
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The following courses are also recommended. They can be taken in any order.

- CATIA Know-how Reuse Essentials
  - 4 h
  - KE1_F

- ENOVIA Design Review Essentials
  - 4 h
  - REEV_F
The following courses are also recommended. They can be taken in any order.

- **CATIA Drafting Essentials**
  - Duration: 24 h
  - Code: GDR_F

- **CATIA 2D Layout for 3D Design Essentials**
  - Duration: 8 h
  - Code: L01_F

- **CATIA Natural Assembly Essentials**
  - Duration: 4 h
  - Code: LCP_F

- **CATIA Mechanical Systems Design Essentials**
  - Duration: 4 h
  - Code: KIM_F
The following courses are also recommended. They can be taken in any order.

- **CATIA Composer Essentials**  
  20 h  
  CPS_F

- **CATIA Bent Part Design Essentials**  
  4 h  
  SMB_F

- **CATIA Know-how Reuse Essentials**  
  4 h  
  KE1_F

- **ENOVIA Design Review Essentials**  
  4 h  
  REEV_F
CATIA

Companion for Mechanical & Shape Designer - MES - 1/4

The following courses are recommended. They can be taken in any order.

**Gateway to the 3DEXPERIENCE Platform**
- GTX_F*
  - 8 h

**Transition to the 3DEXPERIENCE Platform for Mechanical Designers**
- 3DMT_F
  - 16 h

**Transition to the 3DEXPERIENCE Platform for Surface Designers**
- 3DST_F
  - 8 h

**CATIA R2016x Update for Mechanical Designers**
- 8 h

**CATIA R2016x Update for Shape Designers**
- 4 h

**CATIA Mechanical Design Fundamentals**
- 32 h

UMD16_U and UHD16_U courses are also recommended for students who are familiar with the 3D15X Design Apps.

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »

The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

**Gateway to the 3DEXPERIENCE Platform**
- GTX_F*
  - 8 h

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.

**Transition to the 3DEXPERIENCE Platform for Mechanical Designers**
- 3DMT_F
  - 16 h

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Shape Design workbenches. It should be taken prior to taking any other courses.

**Transition to the 3DEXPERIENCE Platform for Surface Designers**
- 3DST_F
  - 8 h
The following courses are also recommended. They can be taken in any order.

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</tr>
<tr>
<td>CATIA Generative Shape Design Essentials</td>
<td>24 h</td>
<td>GSD_F</td>
</tr>
<tr>
<td>CATIA Shape Healing Essentials</td>
<td>8 h</td>
<td>HA1_F</td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

- **CATIA Natural Shape Essentials**
  - 8h
  - LSP_F

- **CATIA Assembly Design Fundamentals**
  - 24h
  - ASD_F

- **CATIA Assembly Design Expert**
  - 16h
  - ASD_A
The following courses are also recommended. They can be taken in any order.

- **CATIA Natural Assembly Essentials**
  - Duration: 4 h
  - Code: LCP_F

- **CATIA Mechanical Systems Design Essentials**
  - Duration: 4 h
  - Code: KIM_F

- **CATIA Bent Part Design Essentials**
  - Duration: 4 h
  - Code: SMB_F

- **CATIA Generative Shape Develop Essentials**
  - Duration: 4 h
  - Code: DL1_F

- **CATIA Know-how Reuse Essentials**
  - Duration: 4 h
  - Code: KE1_F

- **ENOVIA Design Review Essentials**
  - Duration: 4 h
  - Code: REEV_F
CATIA

Companion for Mechanical Part Designer - MDD

The following courses are also recommended. They can be taken in any order.

- **CATIA Part Design Fundamentals**
  - 24 h
  - PDG_F

- **CATIA Part Design Expert**
  - 8 h
  - PDG_A
The following courses are also recommended. They can be taken in any order.

CATIA Mechanical Systems Design Essentials
4 h  KIM_F

CATIA Mechanical Systems Experience
8 h  KIN_F
CATIA

*Companion for 3DMaster Designer – M3D*

The following courses are also recommended. They can be taken in any order.

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>CATIA 3D Tolerancing and Annotation Essentials</td>
<td>12 h</td>
<td>FTA_F</td>
</tr>
<tr>
<td>CATIA 3D Annotation Insight Essentials</td>
<td>4 h</td>
<td>LFT_F</td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

- **Transition to the 3DEXPERIENCE Platform for Surface Designers**
  - 8 h
  - 3DST_F

- **CATIA R2016x Update for Shape Designers**
  - 4 h
  - UHD16_U

- **CATIA Generative Shape Design Essentials**
  - 24 h
  - GSD_F

- **CATIA FreeStyle Shape Design Essentials**
  - 12 h
  - FSS_F

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Shape Design workbenches. It should be taken prior to taking any other courses.

- **UHD16_U course is also recommended for students who are familiar with the 3D15X Design Apps**
The following courses are also recommended. They can be taken in any order.

**CATIA Generative Shape Develop Essentials**
- 4 h
- DL1_F

**CATIA Shape Healing Essentials**
- 8 h
- HA1_F
**CATIA**

*Companion for Design Review & Preparation - DWP*

The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

<table>
<thead>
<tr>
<th>Gateway to the 3DEXPERIENCE Platform</th>
<th>8 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>GTX_F*</td>
<td></td>
</tr>
</tbody>
</table>

*Note: When searching for GTX F course for 3Experience Platform, type: «Gateway»*

The following courses are also recommended. They can be taken in any order.

<table>
<thead>
<tr>
<th>CATIA 3D Annotation Insight Essentials</th>
<th>4 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>LFT_F</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ENOVIA Design Review Essentials</th>
<th>4 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>REEV_F</td>
<td></td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Duration</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gateway to the 3DEXPERIENCE Platform</td>
<td>8 h</td>
<td>GTX_F*</td>
</tr>
<tr>
<td>Transition to the 3DEXPERIENCE Platform for Mechanical Designers</td>
<td>16 h</td>
<td>3DMT_F</td>
</tr>
</tbody>
</table>

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »

The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Duration</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gateway to the 3DEXPERIENCE Platform</td>
<td>8 h</td>
<td>GTX_F*</td>
</tr>
</tbody>
</table>

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Duration</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transition to the 3DEXPERIENCE Platform for Mechanical Designers</td>
<td>16 h</td>
<td>3DMT_F</td>
</tr>
</tbody>
</table>

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »

CATIA R2016x Update for Mechanical Designers

<table>
<thead>
<tr>
<th>Duration</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 h</td>
<td>UMD16_U</td>
</tr>
</tbody>
</table>

CATIA Mechanical Design Fundamentals

<table>
<thead>
<tr>
<th>Duration</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>32 h</td>
<td>3DF_F</td>
</tr>
</tbody>
</table>

CATIA Mechanical Design Expert

<table>
<thead>
<tr>
<th>Duration</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>32 h</td>
<td>3DE_A</td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

- **CATIA Natural Shape Essentials**
  - 8h
  - LSP_F

- **CATIA Generative Wireframe and Surface Essentials**
  - 20h
  - GS1_F

- **CATIA Part Design Fundamentals**
  - 24h
  - PDG_F

- **CATIA Part Design Expert**
  - 8h
  - PDG_A

- **CATIA Assembly Design Fundamentals**
  - 24h
  - ASD_F

- **CATIA Assembly Design Expert**
  - 16h
  - ASD_A
The following courses are also recommended. They can be taken in any order.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Duration</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>CATIA 2D Layout for 3D Design Essentials</td>
<td>8 h</td>
<td>LO1_F</td>
</tr>
<tr>
<td>CATIA Drafting Essentials</td>
<td>24 h</td>
<td>GDR_F</td>
</tr>
<tr>
<td>CATIA Natural Assembly Essentials</td>
<td>4 h</td>
<td>LCP_F</td>
</tr>
<tr>
<td>CATIA Mechanical Systems Design Essentials</td>
<td>4 h</td>
<td>KIM_F</td>
</tr>
<tr>
<td>CATIA Bent Part Design Essentials</td>
<td>4 h</td>
<td>SMB_F</td>
</tr>
<tr>
<td>CATIA Sheet Metal Design Essentials</td>
<td>16 h</td>
<td>SMD_F</td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

- **CATIA Know-how Reuse Essentials**
  - 4 h
  - KE1_F

- **ENOVIA Design Review Essentials**
  - 4 h
  - REEV_F

- **CATIA Weld Design Essentials**
  - 4 h
  - WDG_F
The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses:

**Gateway to the 3DEXPERIENCE Platform**
- **8 h**
- **GTX_F*”**

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses:

**Transition to the 3DEXPERIENCE Platform for Mechanical Designers**
- **16 h**
- **3DMT_F**

*Note: When searching for GTX_F course for 3Experience Platform, type: “Gateway”*

The following courses are also recommended. They can be taken in any order:

**CATIA R2016x Update for Mechanical Designers**
- **8 h**
- **UMD16_U**

**CATIA Mechanical Design Fundamentals**
- **32 h**
- **3DF_F**

**CATIA Mechanical Design Expert**
- **32 h**
- **3DE_A**

UMD16_U course is also recommended for students who are familiar with the 3D15X Design Apps.
The following courses are also recommended. They can be taken in any order.

**CATIA Generative Wireframe and Surface Essentials**
- 20 h
- GS1_F

**CATIA Natural Shape Essentials**
- 8 h
- LSP_F

**CATIA Part Design Fundamentals**
- 24 h
- PDG_F

**CATIA Part Design Expert**
- 8 h
- PDG_A

**CATIA Assembly Design Fundamentals**
- 24 h
- ASD_F

**CATIA Assembly Design Expert**
- 16 h
- ASD_A
The following courses are also recommended. They can be taken in any order.

**CATIA Drafting Essentials**
- 24 h
- GDR_F

**CATIA Mechanical Systems Design Essentials**
- 4 h
- KIM_F

**CATIA Mechanical Systems Experience**
- 8 h
- KIN_F

**CATIA Natural Assembly Essentials**
- 4 h
- LCP_F

**CATIA 2D Layout for 3D Design Essentials**
- 8 h
- L01_F

**CATIA Know-how Reuse Essentials**
- 4 h
- KE1_F
CATIA

Companion for Machine & Equipment Designer - MQD - 4/4

The following courses are also recommended. They can be taken in any order.

- **CATIA Bent Part Design Essentials**
  - 4 h
  - SMB_F

- **CATIA Sheet Metal Design Essentials**
  - 16 h
  - SMD_F

- **CATIA Weld Design Essentials**
  - 4 h
  - WDG_F

- **CATIA Piping and Tubing 3D Design Essentials**
  - 16 h
  - PIP_F

- **CATIA Piping and Tubing Setup Essentials**
  - 24 h
  - PTS_F

- **ENOVIA Design Review Essentials**
  - 4 h
  - REEV_F
### CATIA

**Companion for Shaped Machine & Equipment Designer - MQS - 1/5**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Duration</th>
<th>Course Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gateway to the 3DEXPERIENCE Platform</strong></td>
<td>8 h</td>
<td>GTX_F*</td>
</tr>
<tr>
<td>The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Transition to the 3DEXPERIENCE Platform for Mechanical Designers</strong></td>
<td>8 h</td>
<td>3DMT_F</td>
</tr>
<tr>
<td>The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Transition to the 3DEXPERIENCE Platform for Surface Designers</strong></td>
<td>16 h</td>
<td>3DST_F</td>
</tr>
<tr>
<td>The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Shape Design workbenches. It should be taken prior to taking any other courses.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Duration</th>
<th>Course Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CATIA R2016x Update for Mechanical Designers</strong></td>
<td>8 h</td>
<td>UMD16_U</td>
</tr>
<tr>
<td><strong>CATIA R2016x Update for Shape Designers</strong></td>
<td>4 h</td>
<td>UHD16_U</td>
</tr>
<tr>
<td><strong>CATIA Mechanical Design Fundamentals</strong></td>
<td>32 h</td>
<td>3DF_F</td>
</tr>
</tbody>
</table>

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »

UMD16_U and UHD16_U courses are also recommended for students who are familiar with the 3D15X Design Apps.
The following courses are also recommended. They can be taken in any order.

- **CATIA Mechanical Design Expert**
  - 32 h
  - 3DE_A

- **CATIA Generative Shape Design Essentials**
  - 24 h
  - GSD_F

- **CATIA Shape Healing Essentials**
  - 8 h
  - HA1_F

- **CATIA Natural Shape Essentials**
  - 8 h
  - LSP_F

- **CATIA Part Design Fundamentals**
  - 24 h
  - PDG_F

- **CATIA Part Design Expert**
  - 8 h
  - PDG_A
The following courses are also recommended. They can be taken in any order.

- **CATIA Assembly Design Fundamentals**
  - Duration: 24 h
  - Code: ASD_F

- **CATIA Assembly Design Expert**
  - Duration: 16 h
  - Code: ASD_A

- **CATIA Drafting Essentials**
  - Duration: 24 h
  - Code: GDR_F

- **CATIA Mechanical Systems Design Essentials**
  - Duration: 4 h
  - Code: KIM_F

- **CATIA Mechanical Systems Experience**
  - Duration: 8 h
  - Code: KIN_F

- **CATIA Natural Assembly Essentials**
  - Duration: 4 h
  - Code: LCP_F
The following courses are also recommended. They can be taken in any order.

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>CATIA Generative Shape Develop Essentials</td>
<td>4 h</td>
<td>DL1_F</td>
</tr>
<tr>
<td>CATIA 2D Layout for 3D Design Essentials</td>
<td>8 h</td>
<td>LO1_F</td>
</tr>
<tr>
<td>CATIA Piping and Tubing Setup Essentials</td>
<td>24 h</td>
<td>PTS_F</td>
</tr>
<tr>
<td>CATIA FreeStyle Shape Design Essentials</td>
<td>12 h</td>
<td>FSS_F</td>
</tr>
<tr>
<td>CATIA Know-how Reuse Essentials</td>
<td>4 h</td>
<td>KE1_F</td>
</tr>
<tr>
<td>CATIA Bent Part Design Essentials</td>
<td>4 h</td>
<td>SMB_F</td>
</tr>
</tbody>
</table>
CATIA
Companion for Shaped Machine & Equipment Designer - MQS - 5/5

The following courses are also recommended. They can be taken in any order.

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Duration</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>CATIA Sheet Metal Design Essentials</td>
<td>16 h</td>
<td>SMD_F</td>
</tr>
<tr>
<td>CATIA Weld Design Essentials</td>
<td>4 h</td>
<td>WDG_F</td>
</tr>
<tr>
<td>CATIA Piping and Tubing 3D Design Essentials</td>
<td>16 h</td>
<td>PIP_F</td>
</tr>
<tr>
<td>ENOVIA Design Review Essentials</td>
<td>4 h</td>
<td>REEV_F</td>
</tr>
</tbody>
</table>
The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

Gateway to the 3DEXPERIENCE Platform

- 8 h
- GTX_F*

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.

Transition to the 3DEXPERIENCE Platform for Mechanical Designers

- 16 h
- 3DMT_F

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Shape Design workbenches. It should be taken prior to taking any other courses.

Transition to the 3DEXPERIENCE Platform for Surface Designers

- 16 h
- 3DST_F

The following courses are also recommended. They can be taken in any order.

CATIA Mechanical Design Fundamentals

- 32 h
- 3DF_F

CATIA Mechanical Design Expert

- 32 h
- 3DE_A

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »
CATIA
Companion for Composites Designer - CDE - 2/5

UMD16_U and UHD16_U courses are also recommended for students who are familiar with the 3D15X Design Apps

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Course Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>CATIA R2016x Update for Mechanical Designers</td>
<td>8 h</td>
<td>UMD16_U</td>
</tr>
<tr>
<td>CATIA R2016x Update for Shape Designers</td>
<td>8 h</td>
<td>UHD16_U</td>
</tr>
<tr>
<td>CATIA Generative Shape Design Essentials</td>
<td>24 h</td>
<td>GSD_F</td>
</tr>
<tr>
<td>CATIA Shape Healing Essentials</td>
<td>8 h</td>
<td>HA1_F</td>
</tr>
</tbody>
</table>

The following courses are also recommended. They can be taken in any order.
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<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>CATIA Part Design Fundamentals</td>
<td>24 h</td>
<td>PDG_F</td>
</tr>
<tr>
<td>CATIA Part Design Expert</td>
<td>8 h</td>
<td>PDG_A</td>
</tr>
<tr>
<td>CATIA Assembly Design Fundamentals</td>
<td>24 h</td>
<td>ASD_F</td>
</tr>
<tr>
<td>CATIA Assembly Design Expert</td>
<td>16 h</td>
<td>ASD_A</td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

- **CATIA Drafting Essentials**
  - 24 h
  - GDR_F

- **CATIA Generative Shape Develop Essentials**
  - 4 h
  - DL1_F

- **CATIA 2D Layout for 3D Design Essentials**
  - 8 h
  - LO1_F

- **CATIA FreeStyle Shape Design Essentials**
  - 12 h
  - FSS_F
The following courses are also recommended. They can be taken in any order.

- **CATIA Composites Design Essentials**
  - 40 h
  - CPE_F

- **CATIA Know-how Reuse Essentials**
  - 4 h
  - KE1_F

- **ENOVIA Design Review Essentials**
  - 4 h
  - REEV_F
**CATIA**

*Companion for Composites Manufacturer - CMF - 1/5*

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gateway to the 3DEXPERIENCE Platform</td>
<td>8 h</td>
<td>GTX_F</td>
<td>Recommended for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.</td>
</tr>
<tr>
<td>Transition to the 3DEXPERIENCE Platform for Mechanical Designers</td>
<td>16 h</td>
<td>3DMT_F</td>
<td>Recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.</td>
</tr>
<tr>
<td>Transition to the 3DEXPERIENCE Platform for Surface Designers</td>
<td>8 h</td>
<td>3DST_F</td>
<td>Recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Shape Design workbenches. It should be taken prior to taking any other courses.</td>
</tr>
</tbody>
</table>

*UMD16_U and UHD16_U courses are also recommended for students who are familiar with the 3D15X Design Apps*

<table>
<thead>
<tr>
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<tr>
<td>CATIA R2016x Update for Mechanical Designers</td>
<td>8 h</td>
<td>UMD16_U</td>
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<tr>
<td>CATIA R2016x Update for Shape Designers</td>
<td>4 h</td>
<td>UHD16_U</td>
<td></td>
</tr>
<tr>
<td>CATIA Mechanical Design Fundamentals</td>
<td>32 h</td>
<td>3DF_F</td>
<td></td>
</tr>
</tbody>
</table>

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »*
The following courses are also recommended. They can be taken in any order.

**CATIA Mechanical Design Expert**
- 32 h
- 3DE_A

**CATIA Shape Healing Essentials**
- 8 h
- HA1_F

**CATIA Generative Shape Design Essentials**
- 24 h
- GSD_F

**CATIA Part Design Fundamentals**
- 24 h
- PDG_F
The following courses are also recommended. They can be taken in any order.

CATIA Part Design Expert
- 8 h
- PDG_A

CATIA Assembly Design Fundamentals
- 24 h
- ASD_F

CATIA Assembly Design Expert
- 16 h
- ASD_A

CATIA Drafting Essentials
- 24 h
- GDR_F

CATIA 2D Layout for 3D Design Essentials
- 8 h
- LO1_F

CATIA Generative Shape Develop Essentials
- 4 h
- DL1_F
The following courses are also recommended. They can be taken in any order.

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<tr>
<th>Course</th>
<th>Duration</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>CATIA FreeStyle Shape Design Essentials</td>
<td>12 h</td>
<td>FSS_F</td>
</tr>
<tr>
<td>CATIA Composites Manufacturing Preparation Essentials</td>
<td>16 h</td>
<td>CPM_F</td>
</tr>
<tr>
<td>CATIA Know-how Reuse Essentials</td>
<td>4 h</td>
<td>KE1_F</td>
</tr>
<tr>
<td>ENOVIA Design Review Essentials</td>
<td>4 h</td>
<td>REEV_F</td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

**Gateway to the 3DEXPERIENCE Platform**
- **8 h** GTX_F*

The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

**Transition to the 3DEXPERIENCE Platform for Mechanical Designers**
- **16 h** 3DMT_F

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.

**Transition to the 3DEXPERIENCE Platform for Surface Designers**
- **8 h** 3DST_F

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Shape Design workbenches. It should be taken prior to taking any other courses.

**UMD16_U and UHD16_U courses are also recommended for students who are familiar with the 3D15X Design Apps**

The following courses are also recommended. They can be taken in any order.

**CATIA R2016x Update for Mechanical Designers**
- **8 h** UMD16_U

**CATIA R2016x Update for Shape Designers**
- **4 h** UHD16_U

**CATIA Mechanical Design Fundamentals**
- **32 h** 3DF_F

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »*
The following courses are also recommended. They can be taken in any order.

- **CATIA Mechanical Design Expert**
  - Duration: 32 h
  - Code: 3DE_A

- **CATIA Generative Shape Design Essentials**
  - Duration: 24 h
  - Code: GSD_F

- **CATIA Shape Healing Essentials**
  - Duration: 8 h
  - Code: HA1_F

- **CATIA Part Design Fundamentals**
  - Duration: 24 h
  - Code: PDG_F
The following courses are also recommended. They can be taken in any order.

- **CATIA Part Design Expert**
  - 8 h
  - PDG_A

- **CATIA Assembly Design Fundamentals**
  - 24 h
  - ASD_F

- **CATIA Assembly Design Expert**
  - 16 h
  - ASD_A

- **CATIA Drafting Essentials**
  - 24 h
  - GDR_F

- **CATIA 2D Layout for 3D Design Essentials**
  - 8 h
  - LO1_F

- **CATIA Generative Shape Develop Essentials**
  - 4 h
  - DL1_F
The following courses are also recommended. They can be taken in any order.

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>CATIA FreeStyle Shape Design Essentials</td>
<td>12 h</td>
<td>FSS_F</td>
</tr>
<tr>
<td>CATIA Composites Design Essentials</td>
<td>24 h</td>
<td>CPE_F</td>
</tr>
<tr>
<td>CATIA Composites Manufacturing Preparation Essentials</td>
<td>16 h</td>
<td>CPM_F</td>
</tr>
<tr>
<td>CATIA Know-how Reuse Essentials</td>
<td>4 h</td>
<td>KE1_F</td>
</tr>
<tr>
<td>ENOVIA Design Review Essentials</td>
<td>4 h</td>
<td>REEV_F</td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

CATIA Composites Design Essentials
24 h  CPE_F

CATIA Composites Manufacturing Preparation Essentials
16 h  CPM_F
CATIA

Companion for Fluid 3D Systems Designer - FLG - 1/4

The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

Gateway to the 3DEXPERIENCE Platform
8 h  GTX_F*

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.

Transition to the 3DEXPERIENCE Platform for Mechanical Designers
16 h  3DMT_F

The following courses are also recommended. They can be taken in any order.

CATIA R2016x Update for Mechanical Designers
8 h  UMD16_U

CATIA Mechanical Design Fundamentals
32 h  3DF_F

CATIA Mechanical Design Expert
32 h  3DE_A

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »

UMD16_U course is also recommended for students who are familiar with the 3D15X Design Apps.
The following courses are also recommended. They can be taken in any order.

- **CATIA Generative Wireframe and Surface Essentials**
  - 20 h
  - GS1_F

- **CATIA Natural Shape Essentials**
  - 8 h
  - LSP_F

- **CATIA Part Design Fundamentals**
  - 24 h
  - PDG_F

- **CATIA Part Design Expert**
  - 8 h
  - PDG_A
The following courses are also recommended. They can be taken in any order.

**CATIA Assembly Design Fundamentals**
- 24 h
- ASD_F

**CATIA Assembly Design Expert**
- 16 h
- ASD_A

**CATIA Drafting Essentials**
- 24 h
- GDR_F

**CATIA Mechanical Systems Design Essentials**
- 4 h
- KIM_F
The following courses are also recommended. They can be taken in any order.

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Duration</th>
<th>Code</th>
<th>Image</th>
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</thead>
<tbody>
<tr>
<td>CATIA Natural Assembly Essentials</td>
<td>4 h</td>
<td>LCP_F</td>
<td><img src="image1.png" alt="Image" /></td>
</tr>
<tr>
<td>CATIA 2D Layout for 3D Design Essentials</td>
<td>8 h</td>
<td>L01_F</td>
<td><img src="image2.png" alt="Image" /></td>
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<tr>
<td>CATIA Piping and Tubing 3D Design Essentials</td>
<td>16 h</td>
<td>PIP_F</td>
<td><img src="image3.png" alt="Image" /></td>
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<tr>
<td>CATIA Piping and Tubing Setup Essentials</td>
<td>24 h</td>
<td>PTS_F</td>
<td><img src="image4.png" alt="Image" /></td>
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<tr>
<td>CATIA Know-how Reuse Essentials</td>
<td>4 h</td>
<td>KE1_F</td>
<td><img src="image5.png" alt="Image" /></td>
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<tr>
<td>ENOVIA Design Review Essentials</td>
<td>4 h</td>
<td>REEV_F</td>
<td><img src="image6.png" alt="Image" /></td>
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</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

- **Introduction to Enterprise Knowledge Language**
  - 4 h EKL_F

- **CATIA Engineering Rules Capture Essentials**
  - 12 h KWA_F

- **CATIA Engineering Templates Capture Essentials**
  - 2 h PKT_F
The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

**Gateway to the 3DEXPERIENCE Platform**
- 8 h
- GTX_F*

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.

**Transition to the 3DEXPERIENCE Platform for Mechanical Designers**
- 16 h
- 3DMT_F

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Shape Design workbenches. It should be taken prior to taking any other courses.

**Transition to the 3DEXPERIENCE Platform for Surface Designers**
- 8 h
- 3DST_F

The following courses are also recommended. They can be taken in any order.

**CATIA R2016x Update for Mechanical Designers**
- 8 h
- UMD16_U

**CATIA R2016x Update for Shape Designers**
- 4 h
- UHD16_U

**CATIA Mechanical Design Fundamentals**
- 32 h
- 3DF_F

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »
The following courses are also recommended. They can be taken in any order.

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<thead>
<tr>
<th>Course Name</th>
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<th>Code</th>
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<tbody>
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<td>32 h</td>
<td>3DE_A</td>
</tr>
<tr>
<td>CATIA Shape Healing Essentials</td>
<td>8 h</td>
<td>HA1_F</td>
</tr>
<tr>
<td>CATIA Generative Shape Design Essentials</td>
<td>24 h</td>
<td>GSD_F</td>
</tr>
<tr>
<td>CATIA Natural Shape Essentials</td>
<td>8 h</td>
<td>LSP_F</td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

- **CATIA Part Design Fundamentals**
  - 24 h
  - PDG_F

- **CATIA Part Design Expert**
  - 8 h
  - PDG_A

- **CATIA Assembly Design Fundamentals**
  - 24 h
  - ASD_F

- **CATIA Assembly Design Expert**
  - 16 h
  - ASD_A
The following courses are also recommended. They can be taken in any order.

- **CATIA Drafting Essentials**
  - 24 h
  - GDR_F

- **CATIA Mechanical Systems Design Essentials**
  - 4 h
  - KIM_F

- **CATIA Mechanical Systems Experience**
  - 8 h
  - KIN_F

- **CATIA Natural Assembly Essentials**
  - 4 h
  - LCP_F
The following courses are also recommended. They can be taken in any order.

- **CATIA 2D Layout for 3D Design Essentials**
  - Duration: 8 h
  - Code: LO1_F

- **CATIA Generative Shape Develop Essentials**
  - Duration: 4 h
  - Code: DL1_F

- **CATIA Digitized Shape Preparation Essentials**
  - Duration: 4 h
  - Code: DSE_F

- **CATIA FreeStyle Shape Design Essentials**
  - Duration: 12 h
  - Code: FSS_F
The following courses are also recommended. They can be taken in any order.

- CATIA Know-how Reuse Essentials
  - Duration: 4 h
  - Code: KE1_F

- CATIA Virtual to Real Shape Morphing Essentials
  - Duration: 2 h
  - Code: RSO_F

- CATIA Bent Part Design Essentials
  - Duration: 4 h
  - Code: SMB_F

- CATIA Sheet Metal Design Essentials
  - Duration: 16 h
  - Code: SMD_F
The following courses are also recommended. They can be taken in any order.

- **CATIA Weld Design Essentials**
  - 4 h
  - WDG_F

- **ENOVIA Design Review Essentials**
  - 4 h
  - REEV_F
The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

**Gateway to the 3DEXPERIENCE Platform**

8 h  GTX_F*

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.

**Transition to the 3DEXPERIENCE Platform for Mechanical Designers**

16 h  3DMT_F

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Shape Design workbenches. It should be taken prior to taking any other courses.

**Transition to the 3DEXPERIENCE Platform for Surface Designers**

8 h  3DST_F

The following courses are also recommended. They can be taken in any order.

**CATIA R2016x Update for Mechanical Designers**

8 h  UMD16_U

**CATIA R2016x Update for Shape Designers**

4 h  UHD16_U

**CATIA Mechanical Design Fundamentals**

32 h  3DF_F

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »

UMD16_U and UHD16_U courses are also recommended for students who are familiar with the 3D15X Design Apps.
The following courses are also recommended. They can be taken in any order.

**CATIA Mechanical Design Expert**
- 32 h
- 3DE_A

**CATIA Shape Healing Essentials**
- 8 h
- HA1_F

**CATIA Generative Shape Design Essentials**
- 24 h
- GSD_F

**CATIA Natural Shape Essentials**
- 8 h
- LSP_F
The following courses are also recommended. They can be taken in any order.

- **CATIA Part Design Fundamentals**
  - 24 h
  - PDG_F

- **CATIA Part Design Expert**
  - 8 h
  - PDG_A

- **CATIA Assembly Design Fundamentals**
  - 24 h
  - ASD_F

- **CATIA Assembly Design Expert**
  - 16 h
  - ASD_A
The following courses are also recommended. They can be taken in any order.

**CATIA Drafting Essentials**
- 24 h
- GDR_F

**CATIA Mechanical Systems Design Essentials**
- 4 h
- KIM_F

**CATIA Mechanical Systems Experience**
- 8 h
- KIN_F

**CATIA Natural Assembly Essentials**
- 4 h
- LCP_F
The following courses are also recommended. They can be taken in any order.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CATIA 2D Layout for 3D Design Essentials</td>
<td>8 h</td>
<td>LO1_F</td>
</tr>
<tr>
<td>CATIA Generative Shape Develop Essentials</td>
<td>4 h</td>
<td>DL1_F</td>
</tr>
<tr>
<td>CATIA Digitized Shape Preparation Essentials</td>
<td>4 h</td>
<td>DSE_F</td>
</tr>
<tr>
<td>CATIA FreeStyle Shape Design Essentials</td>
<td>12 h</td>
<td>FSS_F</td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

**CATIA Know-how Reuse Essentials**
- 4 h
- KE1_F

**CATIA Virtual to Real Shape Morphing Essentials**
- 2 h
- RSO_F

**CATIA Bent Part Design Essentials**
- 4 h
- SMB_F

**ENOVIA Design Review Essentials**
- 4 h
- REEV_F
The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

**Gateway to the 3DEXPERIENCE Platform**

8 h | GTX_F*  

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.

**Transition to the 3DEXPERIENCE Platform for Mechanical Designers**

16 h | 3DMT_F  

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Shape Design workbenches. It should be taken prior to taking any other courses.

**Transition to the 3DEXPERIENCE Platform for Surface Designers**

8 h | 3DST_F  

The following courses are also recommended. They can be taken in any order.

**CATIA R2016x Update for Mechanical Designers**

8 h | UMD16_U  

**CATIA R2016x Update for Shape Designers**

4 h | UHD16_U  

UMD16_U and UHD16_U courses are also recommended for students who are familiar with the 3D15X Design Apps.

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »
The following courses are also recommended. They can be taken in any order.

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Reference</th>
</tr>
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<tbody>
<tr>
<td>CATIA Generative Shape Design Essentials</td>
<td>24 h</td>
<td>GSD_F</td>
</tr>
<tr>
<td>CATIA Shape Healing Essentials</td>
<td>8 h</td>
<td>HA1_F</td>
</tr>
<tr>
<td>CATIA Natural Shape Essentials</td>
<td>8 h</td>
<td>LSP_F</td>
</tr>
<tr>
<td>CATIA Assembly Design Fundamentals</td>
<td>24 h</td>
<td>ASD_F</td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

- CATIA Assembly Design Expert
  - 16 h
  - ASD_A

- CATIA Drafting Essentials
  - 24 h
  - GDR_F

- CATIA 2D Layout for 3D Design Essentials
  - 8 h
  - LO1_F

- CATIA Generative Shape Develop Essentials
  - 4 h
  - DL1_F
The following courses are also recommended. They can be taken in any order.

- **CATIA FreeStyle Shape Design Essentials**
  - 12 h
  - FSS_F

- **CATIA Natural Assembly Essentials**
  - 4 h
  - LCP_F

- **CATIA Natural Sketch Essentials**
  - 8 h
  - NTS_F

- **CATIA Know-how Reuse Essentials**
  - 4 h
  - KE1_F

- **ENOVIA Design Review Essentials**
  - 4 h
  - REEV_F

- **CATIA Imagine and Shape Essentials**
  - 16 h
  - IMA_F
The following courses are also recommended.

**Gateway to the 3DEXPERIENCE Platform**
- 8 h
- GTX_F*

**Transition to the 3DEXPERIENCE Platform for Mechanical Designers**
- 16 h
- 3DMT_F

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »

**UMD16_U course is also recommended for students who are familiar with the 3D15X Design Apps**

**The following courses are also recommended. They can be taken in any order.**

**CATIA R2016x Update for Mechanical Designers**
- 8 h
- UMD16_U

**CATIA Generative Wireframe and Surface Essentials**
- 20 h
- GS1_F
CATIA

Companion for Physical Prototyper/Clay Modeler – RPE - 2/3

The following courses are also recommended. They can be taken in any order.

- **CATIA Shape Healing Essentials**
  - 8 h
  - HA1_F

- **CATIA Natural Shape Essentials**
  - 8 h
  - LSP_F

- **CATIA Assembly Design Fundamentals**
  - 24 h
  - ASD_F

- **CATIA Assembly Design Expert**
  - 16 h
  - ASD_A
The following courses are also recommended. They can be taken in any order.

- **CATIA Digitized Shape Preparation Essentials**
  - 4 h
  - DSE_F

- **CATIA Virtual to Real Shape Morphing Essentials**
  - 2 h
  - RSO_F

- **CATIA FreeStyle Shape Design Essentials**
  - 12 h
  - FSS_F

- **ENOVIA Design Review Essentials**
  - 4 h
  - REEV_F
The following courses are recommended. They can be taken in any order.

- **Gateway to the 3DEXPERIENCE Platform**
  - 8 h
  - GTX_F*

- **Transition to the 3DEXPERIENCE Platform for Mechanical Designers**
  - 16 h
  - 3DMT_F

- **Transition to the 3DEXPERIENCE Platform for Surface Designers**
  - 8 h
  - 3DST_F

UMD16_U and UHD16_U courses are also recommended for students who are familiar with the 3D15X Design Apps.

- **CATIA R2016x Update for Mechanical Designers**
  - 8 h
  - UMD16_U

- **CATIA R2016x Update for Shape Designers**
  - 4 h
  - UHD16_U

- **CATIA Mechanical Design Fundamentals**
  - 32 h
  - 3DF_F

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »
The following courses are also recommended. They can be taken in any order.

- CATIA Mechanical Design Expert
  - 32 h
  - 3DE_A

- CATIA Generative Shape Design Essentials
  - 24 h
  - GSD_F

- CATIA Shape Healing Essentials
  - 8 h
  - HA1_F
CATIA
Companion for Composites Braiding Designer - CBA - 3/4

The following courses are also recommended. They can be taken in any order.

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Code</th>
</tr>
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<tbody>
<tr>
<td>CATIA Part Design Fundamentals</td>
<td>24 h</td>
<td>PDG_F</td>
</tr>
<tr>
<td>CATIA Part Design Expert</td>
<td>8 h</td>
<td>PDG_A</td>
</tr>
<tr>
<td>CATIA Assembly Design Fundamentals</td>
<td>24 h</td>
<td>ASD_F</td>
</tr>
<tr>
<td>CATIA Assembly Design Expert</td>
<td>16 h</td>
<td>ASD_A</td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

- **CATIA Drafting Essentials**
  - 24h
  - GDR_F

- **CATIA 2D Layout for 3D Design Essentials**
  - 8h
  - LO1_F

- **CATIA Generative Shape Develop Essentials**
  - 4h
  - DL1_F

- **CATIA FreeStyle Shape Design Essentials**
  - 12h
  - FSS_F

- **CATIA Composites Braiding Essentials**
  - 24h
  - CPB_F

- **CATIA Know-how Reuse Essentials**
  - 4h
  - KE1_F

- **ENOVIA Design Review Essentials**
  - 4h
  - REEV_F
The following courses are mandatory for new 3DEXPERIENCE Platform users. They should be taken prior to taking any other courses.

**Gateway to the 3DEXPERIENCE Platform**
- **8 h**
- GTX_F*

**Transition to the 3DEXPERIENCE Platform for Mechanical Designers**
- **16 h**
- 3DMT_F

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »

The following courses are also recommended. They can be taken in any order.

**CATIA R2016x Update for Mechanical Designers**
- **8 h**
- UMD16_U

**CATIA Mechanical Design Fundamentals**
- **32 h**
- 3DF_F

**CATIA Mechanical Design Expert**
- **32 h**
- 3DE_A

UMD16_U course is also recommended for students who are familiar with the 3D15X Design Apps.
The following courses are also recommended. They can be taken in any order.

<table>
<thead>
<tr>
<th>CATIA Generative Wireframe and Surface Essentials</th>
<th>CATIA Part Design Fundamentals</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 h GS1_F</td>
<td>24 h PDG_F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CATIA Natural Shape Essentials</th>
<th>CATIA Part Design Expert</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 h LSP_F</td>
<td>8 h PDG_A</td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

- CATIA Assembly Design Fundamentals
  - 24 h
  - ASD_F

- CATIA Assembly Design Expert
  - 16 h
  - ASD_A

- CATIA Drafting Essentials
  - 24 h
  - GDR_F

- CATIA Mechanical Systems Design Essentials
  - 4 h
  - KIM_F
The following courses are also recommended. They can be taken in any order.

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<tr>
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<tbody>
<tr>
<td>CATIA Natural Assembly Essentials</td>
<td>4 h</td>
<td>LCP_F</td>
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<tr>
<td>CATIA 2D Layout for 3D Design Essentials</td>
<td>8 h</td>
<td>L01_F</td>
</tr>
<tr>
<td>CATIA Functional Plastic Parts Essentials</td>
<td>4 h</td>
<td>FMP_F</td>
</tr>
<tr>
<td>CATIA Know-how Reuse Essentials</td>
<td>4 h</td>
<td>KE1_F</td>
</tr>
<tr>
<td>CATIA Bent Part Design Essentials</td>
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<td>SMB_F</td>
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<tr>
<td>ENOVIA Design Review Essentials</td>
<td>4 h</td>
<td>REEV_F</td>
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The following courses are also recommended. They can be taken in any order.

**CATIA Virtual to Real Shape Morphing Essentials**
- **2 h**
- RSO_F

**CATIA Digitized Shape Preparation Essentials**
- **4 h**
- DSE_F
The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

**Gateway to the 3DEXPERIENCE Platform**
8 h | GTX_F*

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.

**Transition to the 3DEXPERIENCE Platform for Mechanical Designers**
16 h | 3DMT_F

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Shape Design workbenches. It should be taken prior to taking any other courses.

**Transition to the 3DEXPERIENCE Platform for Surface Designers**
8 h | 3DST_F

The following courses are also recommended. They can be taken in any order.

**CATIA R2016x Update for Mechanical Designers**
8 h | UMD16_U

**CATIA R2016x Update for Shape Designers**
4 h | UHD16_U

**CATIA Mechanical Design Fundamentals**
32 h | 3DF_F

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »
The following courses are also recommended. They can be taken in any order.

**CATIA Mechanical Design Expert**
32 h  3DE_A

**CATIA Shape Healing Essentials**
8 h  HA1_F

**CATIA Generative Shape Design Essentials**
24 h  GSD_F

**CATIA Natural Shape Essentials**
8 h  LSP_F
The following courses are also recommended. They can be taken in any order.

**CATIA Part Design Fundamentals**
- 24 h  
- PDG_F

**CATIA Part Design Expert**
- 8 h  
- PDG_A

**CATIA Assembly Design Fundamentals**
- 24 h  
- ASD_F

**CATIA Assembly Design Expert**
- 16 h  
- ASD_A
The following courses are also recommended. They can be taken in any order.

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<tr>
<td>CATIA Mechanical Systems Design Essentials</td>
<td>4 h</td>
<td>KIM_F</td>
</tr>
<tr>
<td>CATIA Natural Assembly Essentials</td>
<td>4 h</td>
<td>LCP_F</td>
</tr>
<tr>
<td>CATIA 3D Annotation Insight Essentials</td>
<td>4 h</td>
<td>LFT_F</td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

- **CATIA 2D Layout for 3D Design Essentials**
  - 8 h
  - LO1_F

- **CATIA FreeStyle Shape Design Essentials**
  - 12 h
  - FSS_F

- **CATIA Functional Plastic Parts Essentials**
  - 4 h
  - FMP_F

- **CATIA Bent Part Design Essentials**
  - 4 h
  - SMB_F
The following courses are also recommended. They can be taken in any order.

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<th>Course Name</th>
<th>Duration</th>
<th>Code</th>
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<tbody>
<tr>
<td>CATIA Generative Shape Develop Essentials</td>
<td>4 h</td>
<td>DL1_F</td>
</tr>
<tr>
<td>CATIA Know-how Reuse Essentials</td>
<td>4 h</td>
<td>KE1_F</td>
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<tr>
<td>ENOVIA Design Review Essentials</td>
<td>4 h</td>
<td>REEV_F</td>
</tr>
</tbody>
</table>
CATIA

Companion for Preliminary Steel Structure Designer - SFG - 1/5

The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

Gateway to the 3DEXPERIENCE Platform

8 h
GTX_F*

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.

Transition to the 3DEXPERIENCE Platform for Mechanical Designers

16 h
3DMT_F

UMD16_U course is also recommended for students who are familiar with the 3D15X Design Apps

The following courses are also recommended. They can be taken in any order.

CATIA R2016x Update for Mechanical Designers

8 h
UMD16_U

CATIA Mechanical Design Fundamentals

32 h
3DF_F

CATIA Mechanical Design Expert

32 h
3DE_A

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »
The following courses are also recommended. They can be taken in any order.

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Duration</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CATIA Generative Wireframe and Surface Essentials</td>
<td>20 h</td>
<td>GS1_F</td>
<td></td>
</tr>
<tr>
<td>CATIA Natural Shape Essentials</td>
<td>8 h</td>
<td>LSP_F</td>
<td></td>
</tr>
<tr>
<td>CATIA Part Design Fundamentals</td>
<td>24 h</td>
<td>PDG_F</td>
<td></td>
</tr>
<tr>
<td>CATIA Part Design Expert</td>
<td>8 h</td>
<td>PDG_A</td>
<td></td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

- **CATIA Assembly Design Fundamentals**
  - 24 h
  - ASD_F

- **CATIA Assembly Design Expert**
  - 16 h
  - ASD_A

- **CATIA Drafting Essentials**
  - 24 h
  - GDR_F

- **CATIA Mechanical Systems Design Essentials**
  - 4 h
  - KIM_F
CATIA

Companion for Preliminary Steel Structure Designer - SFG - 4/5

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
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<tbody>
<tr>
<td>CATIA Natural Assembly Essentials</td>
<td>4 h</td>
<td>LCP_F</td>
</tr>
<tr>
<td>CATIA 2D Layout for 3D Design Essentials</td>
<td>8 h</td>
<td>LO1_F</td>
</tr>
<tr>
<td>CATIA Structure Functional Design Essentials</td>
<td>16 h</td>
<td>SFD_F</td>
</tr>
</tbody>
</table>
The following courses are also recommended. They can be taken in any order.

- **CATIA Bent Part Design Essentials**
  - 4 h
  - SMB_F

- **CATIA Know-how Reuse Essentials**
  - 4 h
  - KE1_F

- **ENOVIA Design Review Essentials**
  - 4 h
  - REEV_F
The following courses are also recommended. They can be taken in any order.

- **CATIA R2016x Update for Mechanical Designers**
  - 8 h
  - UMD16_U

- **CATIA Mechanical Design Fundamentals**
  - 32 h
  - 3DF_F

- **CATIA Mechanical Design Expert**
  - 32 h
  - 3DE_A

*Note: When searching for GTX_F course for 3Experience Platform, type: «Gateway»
The following courses are also recommended. They can be taken in any order.

- CATIA Generative Wireframe and Surface Essentials
  - 20 h
  - GS1_F

- CATIA Natural Shape Essentials
  - 8 h
  - LSP_F

- CATIA Part Design Fundamentals
  - 24 h
  - PDG_F

- CATIA Part Design Expert
  - 8 h
  - PDG_A
The following courses are also recommended. They can be taken in any order.

**CATIA Assembly Design Fundamentals**
- 24 h
- ASD_F

**CATIA Assembly Design Expert**
- 16 h
- ASD_A

**CATIA Drafting Essentials**
- 24 h
- GDR_F

**CATIA Mechanical Systems Design Essentials**
- 4 h
- KIM_F
The following courses are also recommended. They can be taken in any order.

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<td>CATIA Bent Part Design Essentials</td>
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**CATIA**

*Companion for Steel Structure Designer - SDG - 4/4*
Gateway to the 3DEXPERIENCE Platform

The following course is mandatory for new 3DEXPERIENCE Platform users. It should be taken prior to taking any other courses.

- **8 h** GTX_F*

Transition to the 3DEXPERIENCE Platform for Mechanical Designers

The following course is recommended for new 3DEXPERIENCE Platform users. They should be familiar with V5 Part Design and Assembly Design workbenches. It should be taken prior to taking any other courses.

- **16 h** 3DMT_F

*Note: When searching for GTX_F course for 3Experience Platform, type: « Gateway »

The following courses are also recommended. They can be taken in any order.

- **8 h** UMD16_U
- **32 h** 3DF_F
- **32 h** 3DE_A

UMD16_U course is also recommended for students who are familiar with the 3D15X Design Apps.
The following courses are also recommended. They can be taken in any order.

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<td>CATIA Shape Healing Essentials</td>
<td>8 h</td>
<td>HA1_F</td>
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<tr>
<td>CATIA Natural Shape Essentials</td>
<td>8 h</td>
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<td>8 h</td>
<td>PDG_A</td>
</tr>
<tr>
<td>CATIA Assembly Design Fundamentals</td>
<td>24 h</td>
<td>ASD_F</td>
</tr>
<tr>
<td>CATIA Assembly Design Expert</td>
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<tr>
<td>CATIA Natural Assembly Essentials</td>
<td>4 h</td>
<td>LCP_F</td>
</tr>
<tr>
<td>CATIA 2D Layout for 3D Design Essentials</td>
<td>8 h</td>
<td>L01_F</td>
</tr>
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<td>CATIA Functional Plastic Parts Essentials</td>
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