



**3DEXPERIENCE®**

# Manufacturing/Production

3DEXPERIENCE R2017x Learning Paths

March 2017

# Delivery formats & recommendations

- Courses can be taken in any order in a role. If Fundamental and Expert levels are available for the same app, you must take the Fundamental course first.

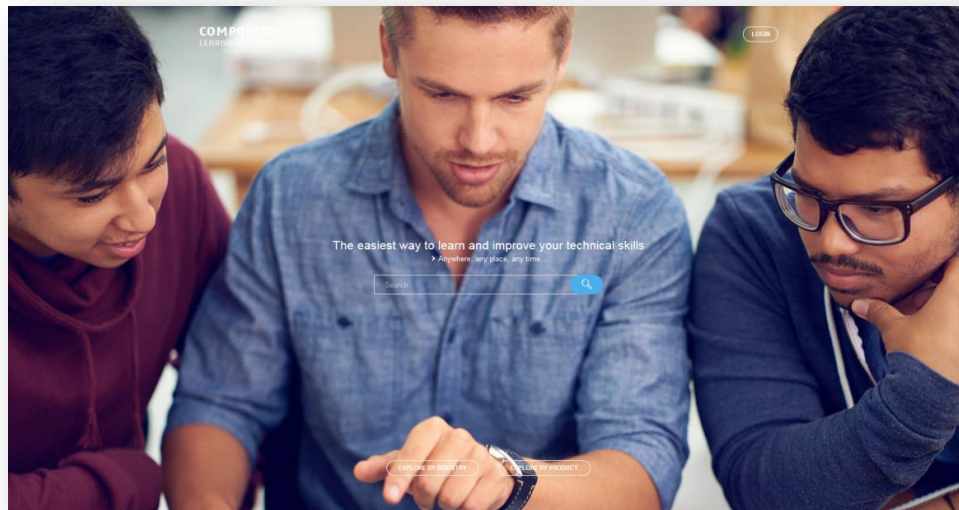


- **Instructor led:** the class is delivered by an instructor, either face-to-face or distant (virtual) via an internet connection and a screen sharing session.



- In all cases, the courseware is available **online** via **Companion Learning Space**: <https://companion.3ds.com>

## Companion Learning Space



# Learning Paths by role

- ❖ **DELMIA** *Companion for Manufacturing Process Planner*
- ❖ **DELMIA** *Companion for Manufacturing Engineer*
- ❖ **DELMIA** *Companion for Process Simulation Analyst*
- ❖ **DELMIA** *Companion for Assembly Simulation Expert*
- ❖ **DELMIA** *Companion for Work Instructions Designer*
- ❖ **DELMIA** *Companion for Time Study Analyst*
- ❖ **DELMIA** *Companion for Shop Floor Equipment Simulation Engineer*
- ❖ **DELMIA** *Companion for Shop Floor Equipment Engineer*
- ❖ **DELMIA** *Companion for Plant Layout Designer*
- ❖ **DELMIA** *Companion for NC Prismatic Programmer*


# Learning Paths by role

- ❖ **DELMIA** *Companion for NC Milling Machining Programmer*
- ❖ **DELMIA** *Companion for NC Multi-Axis Milling Programmer*
- ❖ **DELMIA** *Companion for Robotics Arc Engineer*
- ❖ **DELMIA** *Companion for Robotics Spot Engineer*
- ❖ **DELMIA** *Companion for Robotics Offline Programmer*
- ❖ **DELMIA** *Companion for Robotics Engineer*
- ❖ **DELMIA** *Companion for NC Multi-Axis Milling & Turning Programmer*
- ❖ **DELMIA** *Companion for NC Machine Code Validation Specialist*
- ❖ **DELMIA** *Companion for NC Prismatic & Turning Programmer*
- ❖ **DELMIA** *Companion for Industrial Engineer*
- ❖ **DELMIA** *Companion for 3D Design Manufacturing Engineer*

# DELMIA

## Companion for Manufacturing Process Planner - PPL - 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*	 

\*Note: When searching for GTX\_F course for 3DEXPERIENCE platform, type: « Gateway »

The following courses are also recommended.

What's New for Manufacturing Process Planners 		
3 h	WPPL_F	 
DELMIA Manufacturing Process Planning Essentials 		
8 h	MSD_F	 
DELMIA Manufacturing Equipment Allocation Essentials 		
8 h	MLB_F	 

# DELMIA

## Companion for Manufacturing Process Planner - PPL - 2/2




The following courses are also recommended.

<b>CATIA Know-how Reuse Essentials</b>		 Know-how Reuse
4 h	KE1_F	 
<b>DELMIA Planning Structure Essentials</b>		 DELMIA Planning Structure
12 h	PRR_F	 
<b>DELMIA Manufactured Item Definition Essentials</b>		 DELMIA Manufactured Item Definition
6 h	PRD_F	 

# DELMIA

## Companion for Manufacturing Engineer - PST

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 3DEXPERIENCE platform, type: « Gateway »

The following courses are also recommended.

What's New for Manufacturing Engineers 		
1 h	WPST_F	 
CATIA Know-how Reuse Essentials 		
4 h	KE1_F	 
DELMIA Planning Structure Essentials 		
12 h	PRR_F	 

# DELMIA

## Companion for Process Simulation Analyst - MAE

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 3DEXPERIENCE platform, type: « Gateway »

The following courses are also recommended.



What's New for Process Simulation Analysts 		
1 h	WMAE_F	 
DELMIA Manufacturing Assembly Evaluation Essentials 		
6 h	FIT_F	 



# DELMIA

## Companion for Assembly Simulation Expert - ASE

The following courses are also recommended.

<b>DELMIA Assembly path Optimization Essentials</b>		
6 h	APO_F	

# DELMIA

## Companion for Work Instructions Designer - WKS

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 3DEXPERIENCE platform, type: « Gateway »

The following courses are also recommended.

What's New for Work Instructions Designers 		
1 h	WWKS_F	 
DELMIA Manufacturing Work Instructions Essentials 		
6 h	WKD_F	 

# DELMIA

## Companion for Time Study Analyst - TMA

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 3DEXPERIENCE platform, type: « Gateway »

The following courses are also recommended.

What's New for Time Study Analysts			
1 h	WTMA_F		
DELMIA Time-Motion Study Essentials			
6 h	STM_F		

# DELMIA

## Companion for Shop Floor Equipment Simulation Engineer - EQS

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 3DEXPERIENCE platform, type: « Gateway »

The following courses are also recommended.

DELMIA Equipment Simulation Essentials 		
1 h	WU1_F	

# DELMIA

## Companion for Shop Floor Equipment Engineer - EQE

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 3DEXPERIENCE platform, type: « Gateway »

The following courses are also recommended.

What's New for Shop Floor Equipment Engineers 		
1 h	WEQE_F	 
CATIA Mechanical Systems Design Essentials 		
4 h	KIM_F	 
DELMIA Manufacturing Equipment Design Essentials 		
20 h	DBG_F	 

# DELMIA

## Companion for Plant Layout Designer - PLA -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\*



**\*Note:** When searching for GTX\_F course for 3DEXPERIENCE platform, type: « Gateway »

The following courses are also recommended.

### What's New for Plant Layout Designers



1 h

WPLA\_F



### CATIA Drafting Essentials



24 h

GDR\_F



### CATIA 2D Layout for 3D Design Essentials



8 h

L01\_F



# DELMIA

## Companion for Plant Layout Designer - PLA – 2/2

The following courses are also recommended.

<b>CATIA Know-how Reuse Essentials</b>		 Know-how Reuse
4 h	KE1_F	 
<b>DELMIA Plant Layout Design Essentials</b>		 DELMIA Plant Layout Design
6 h	MRL_F	 
<b>CATIA Engineering Templates Reuse</b>		 CATIA Engineering Templates Reuse Imagine & Shape
1 h	KT1_F	 

# DELMIA

## Companion for NC Prismatic Programmer - NPM

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 3DEXPERIENCE platform, type: « Gateway »

The following courses are also recommended.

What's New for NC Prismatic Programmers 		
1 h	WNPM_F	 

DELMIA V5 to 3DEXPERIENCE Machining Transition 		
12 h	PMGT_F	 

DELMIA Prismatic Machining Fundamentals 		
32 h	PMG_F	 

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DELMIA Prismatic Machining Advanced 		
20 h	PMG_A	 



# DELMIA

## Companion for NC Milling Machining Programmer - NMG

The following courses are also recommended.

What's New for NC Milling Machining Programmers			
1 h	WNMG_F	 	
DELMIA V5 to 3DEXPERIENCE Machining Transition			
12 h	PMGT_F	 	
DELMIA Milling Machining Essentials			
24 h	SMG_F	 	

# DELMIA

## Companion for NC Multi-Axis Milling Programmer - NMX





The following courses are also recommended.

<b>What's New for NC Multi-Axis Milling Programmers</b>			
1 h	WNMX_F	 	
<b>DELMIA V5 to 3DEXPERIENCE Machining Transition</b>			
12 h	PMG_T	 	
<b>DELMIA Multi-Axis Machining Essentials</b>			
32 h	MMG_F	 	

# DELMIA

## Companion for Robotics Arc Engineer - RAE





The following courses are also recommended.

What's New for Robotics Arc Engineers 		
1 h	WRAE_F	
DELMIA Robot Arc Welding Simulation Essentials 		
8 h	AWG1_F	

# DELMIA

## Companion for Robotics Spot Engineer - RSE







The following courses are also recommended.

<b>What's New for Robotics Spot Engineers</b>		
1 h	WRSE_F	
<b>DELMIA Robot Spot Welding Simulation Essentials</b>		
8 h	SWG1_F	

# DELMIA

## Companion for Robotics Offline Programmer - ROL

The following courses are also recommended.

What's New for Robotics Offline Programmers		
1 h	WROL_F	 
DELMIA Robot Programming Essentials		
6 h	OLP_F	 

# DELMIA





## Companion for Robotics Engineer - RTS

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 3DEXPERIENCE platform, type: « Gateway »

The following courses are also recommended.

What's New for Robotics Engineers 		
1 h	WRTS_F	
DELMIA Robot Simulation Essentials 		
12 h	WSU_F	

# DELMIA

## Companion for NC Multi-Axis Milling & Turning Programmer - NMT

The following courses are also recommended.

<b>What's New for NC Multi-Axis Milling and Turning Programmers</b>		
1 h	WNMT_F	 
<b>DELMIA V5 to 3DEXPERIENCE Machining Transition</b>		
12 h	PMGT_F	 
<b>DELMIA Mill-Turn Machining Essentials</b>		
20 h	LMG_F	 

# DELMIA

## Companion for NC Machine Code Validation Specialist - NMV

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 3DEXPERIENCE platform, type: « Gateway »

The following courses are also recommended.

What's New for NC Machine Code Validation Specialists 		
1 h	WNMV_F	 
DELMIA V5 to 3DEXPERIENCE Machining Transition 		
12 h	PMGT_F	 
DELMIA Machining Validation Essentials 		
6 h	MSG_F	 



# DELMIA

## Companion for NC Prismatic & Turning Programmer - NPT

The following courses are also recommended.

<b>What's New for NC Prismatic and Turning Programmers</b>		
1 h	WNPT_F	
<b>DELMIA V5 to 3DEXPERIENCE Machining Transition</b>		
12 h	PMGT_F	
<b>DELMIA Prismatic and Turning Machining Essentials</b>		
20 h	LMG1_F	

# DELMIA






## Companion for Industrial Engineer - IEN

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 3DEXPERIENCE platform, type: « Gateway »

The following courses are also recommended.

DELMIA Process Flow Simulation Essentials 		
8 h	PSU_F	 
CATIA Know-how Reuse Essentials 		
4 h	KE1_F	 
DELMIA Plant Layout Design Essentials 		
6 h	MRL_F	 
DELMIA DELMIA Factory Flow Simulation Essentials 		
8 h	SLA_F	 

# DELMIA

## Companion for 3D Design Manufacturing Engineer - DME - 1/3

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.

### What's New for 3D Design Manufacturing Engineers



1 h

WDME\_F



### CATIA Mechanical Design Fundamentals



32 h

3DF\_F



### CATIA Mechanical Design Expert



32 h

3DE\_A



# DELMIA

## Companion for 3D Design Manufacturing Engineer - DME - 2/3

The following courses are also recommended.

<b>CATIA Assembly Design Essentials</b>			
24 h	ASD_F		

<b>CATIA Part Design Essentials</b>			
24 h	PDG_F		

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<b>CATIA Assembly Design Expert</b>			
16 h	ASD_A		

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<b>CATIA Part Design Expert</b>			
24 h	PDG_A		

# DELMIA




## Companion for 3D Design Manufacturing Engineer - DME - 3/3

The following courses are also recommended.



<b>CATIA Know-how Reuse Essentials</b>			 Know-how Reuse
4 h	KE1_F	 	

<b>CATIA 2D Layout for 3D Design Essentials</b>			 2D Layout for 3D Design
8 h	LO1_F	 	

<b>CATIA Drafting Essentials</b>			 Drafting
24 h	GDR_F	 	

<b>CATIA Generative Wireframe and Surface Essentials</b>			 Gen. Wireframe & Surface
20 h	GS1_F	 	

<b>ENOVIA Design Review Essentials</b>			 Design Review
4 h	REEV_F	 	

<b>CATIA Engineering Templates Reuse</b>			 Imagine & Shape
1 h	KT1_F	 	

<b>CATIA Mechanical Systems Design Essentials</b>			 Mechanical Sys. Design
4 h	KIM_F	 	

