

**3DEXPERIENCE**

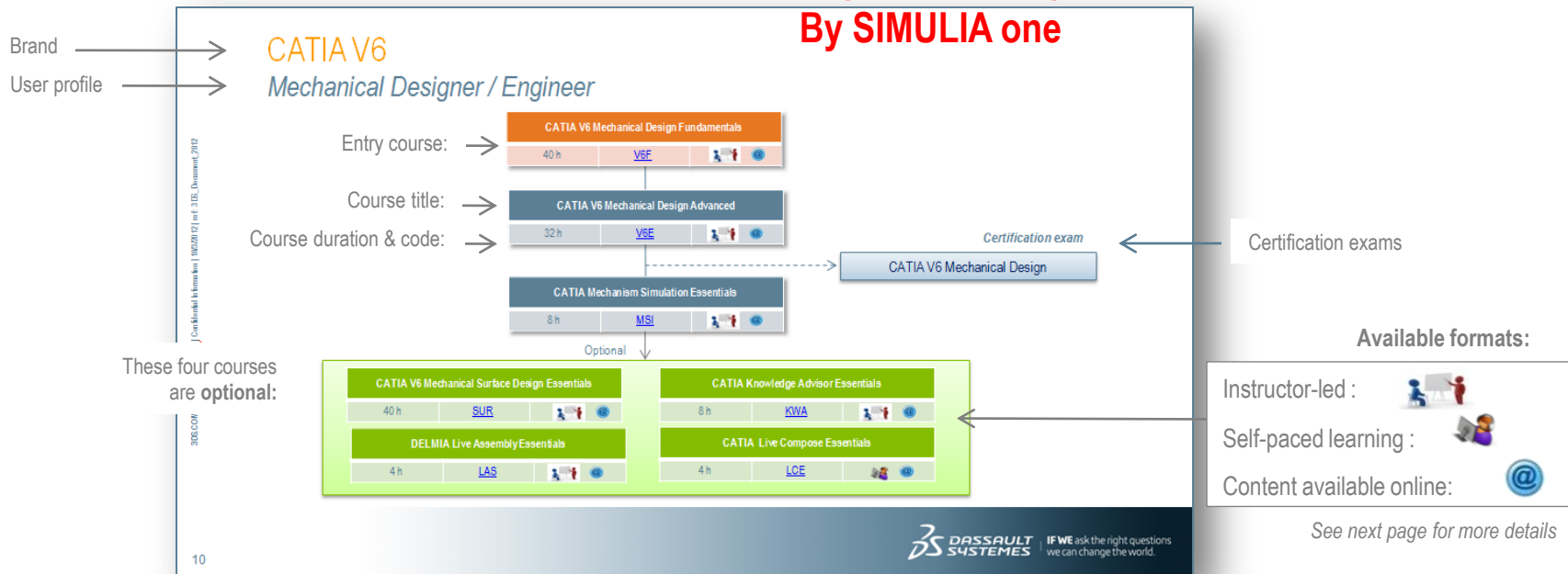
# Global Education

Version 6 Learning Paths  
**SIMULIA**

February 2016

# How to read the learning path

**Replace CATIA print screen  
By SIMULIA one**






Notes:

- 'Essential' in a course title means that the course is self-sufficient and includes fundamental and advanced topics

# 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** via **Companion Learning Space** (<https://companion.3ds.com>).

## Companion Learning Space



- ▶ More information on **certification exams**, go to menu **Testing and Certification / How to get certified?**  
<http://www.3ds.com/education/3ds-university/testing-and-certification/how-to-get-certified>

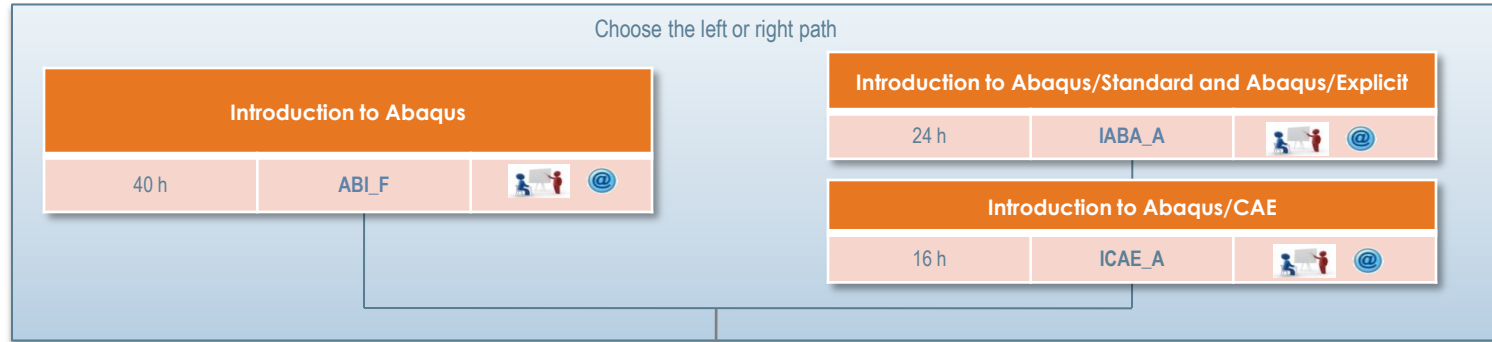
# V6 learning path by user profile

5. SIMULIA - Analyst / FEA Engineer – Introductory and Intermediate level
6. SIMULIA - Analyst / FEA Engineer – Advanced Level
7. SIMULIA - Materials Specialist – Advanced Level
8. SIMULIA - Analyst / Large Deformation, Fluids, and/or Acoustics Specialist – Advanced Level
9. SIMULIA - Analyst / Automotive Engineer – Advanced Level
10. SIMULIA - Analyst / Oil and Gas Engineer – Analyst / Biomedical Engineer – Advanced Level
11. SIMULIA - Analyst / Scripting and Customization Specialist
12. SIMULIA - Mechanical Designer / Methods Developer / Manager / Business Analyst – Analyst /Systems Administrator
13. SIMULIA - Analyst / Mechanical Designer – Analysis Interest

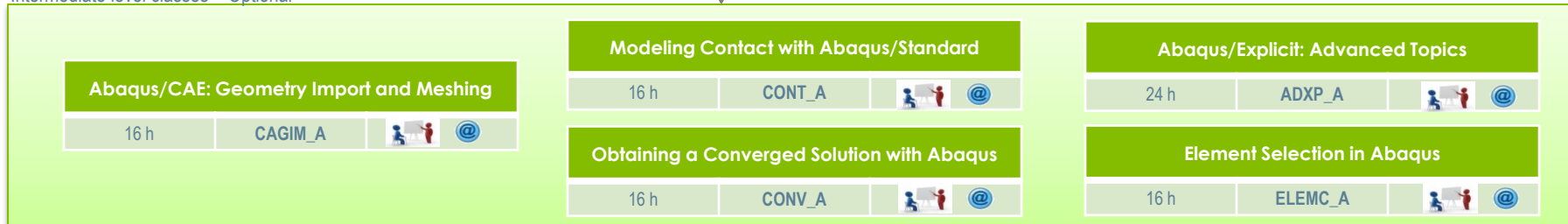
# SIMULIA

## Analyst / FEA Engineer – Introductory and Intermediate level

The following courses are recommended for new Abaqus users



Intermediate level classes – Optional



# SIMULIA

## Analyst / FEA Engineer – Advanced level

The following courses are recommended for engineers with experience using Abaqus

Choose among the following courses based on your area of interest

### Electromagnetic Analysis with Abaqus

8 h

EMAG\_A



### Linear Dynamics with Abaqus

16 h

LNDYN\_A



### Flexible Multibody Systems with Abaqus

16 h

FLEX\_A



### Heat Transfer and Thermal-Stress Analysis with Abaqus

16 h

HEAT\_A



### Buckling, Postbuckling, and Collapse Analysis with Abaqus

16 h

BUCK\_A



### Substructures and Submodeling with Abaqus

16 h

SUPSUB\_A



### Writing User Subroutines with Abaqus

16 h

SUBR\_A



### Metal Forming with Abaqus

24 h

METF\_A



### Topology and Shape Optimization in Abaqus

8 h

ATOM\_A



### Co-simulation with Abaqus and Dymola

4 h

DYM\_A



### Adaptive Remeshing with Abaqus/Standard

8 h

ADAP\_A



Abaqus Topology Optimization Module (ATOM).

# SIMULIA

## Analyst / Materials Specialist – Advanced level

The following courses are recommended for engineers with experience using Abaqus

Choose among the following *advanced material modeling* courses based on your area of interest

### Modeling Fracture and Failure with Abaqus

24 h

FRAC\_A



### Analysis of Composite Materials with Abaqus

24 h

MAT\_A



### Metal Inelasticity in Abaqus

16 h

METAL\_A



### Composites Modeler for Abaqus/CAE

16 h

CMA\_A



### Modeling Rubber and Viscoelasticity with Abaqus

24 h

MRUB\_A



### CZone for Abaqus

4 h

CZA\_A



# SIMULIA

## Analyst / Large Deformation, Fluids, and/or Acoustics Specialist – Advanced level

The following courses are recommended for engineers with experience using Abaqus

Choose among the following advanced *large deformation and fluid modeling* courses based on your area of interest

### Modeling Extreme Deformation and Fluid Flow with Abaqus

16 h

FLOW\_A



### Introduction to Abaqus/CFD for Multiphysics Applications

16 h

CFD\_F



### Structural-Acoustic Analysis Using Abaqus

16 h

ACOU\_A



### FSI Simulation Using Abaqus and Third-party CFD Codes

16 h





FSI\_A





The following courses are recommended for engineers with experience using Abaqus

Choose among the following advanced *automotive modeling* courses based on your area of interest

<b>Automotive NVH with Abaqus</b>			<b>Tire Analysis with Abaqus: Fundamentals</b>		
24 h	NVH_A		16 h	TIRE_F	
<b>Crashworthiness Analysis with Abaqus</b>			<b>Tire Analysis with Abaqus: Advanced Topics</b>		
24 h	CRASH_A		8 h	TIRE2_A	

An arrow points from the 'Tire Analysis with Abaqus: Fundamentals' course to the 'Tire Analysis with Abaqus: Advanced Topics' course.

# SIMULIA

## Analyst / Oil & Gas Engineer – Advanced level

The following courses are recommended for engineers with experience using Abaqus

Choose among the following advanced *oil and gas industry* courses based on your particular area of interest

### Abaqus for Offshore Analysis

16 h

OFFSH\_A



### Analysis of Geotechnical Problems with Abaqus

16 h

GEOT\_A



## Analyst / Biomedical Engineer – Advanced level

The following course is recommended for engineers with experience using Abaqus

### Modeling Stents with Abaqus

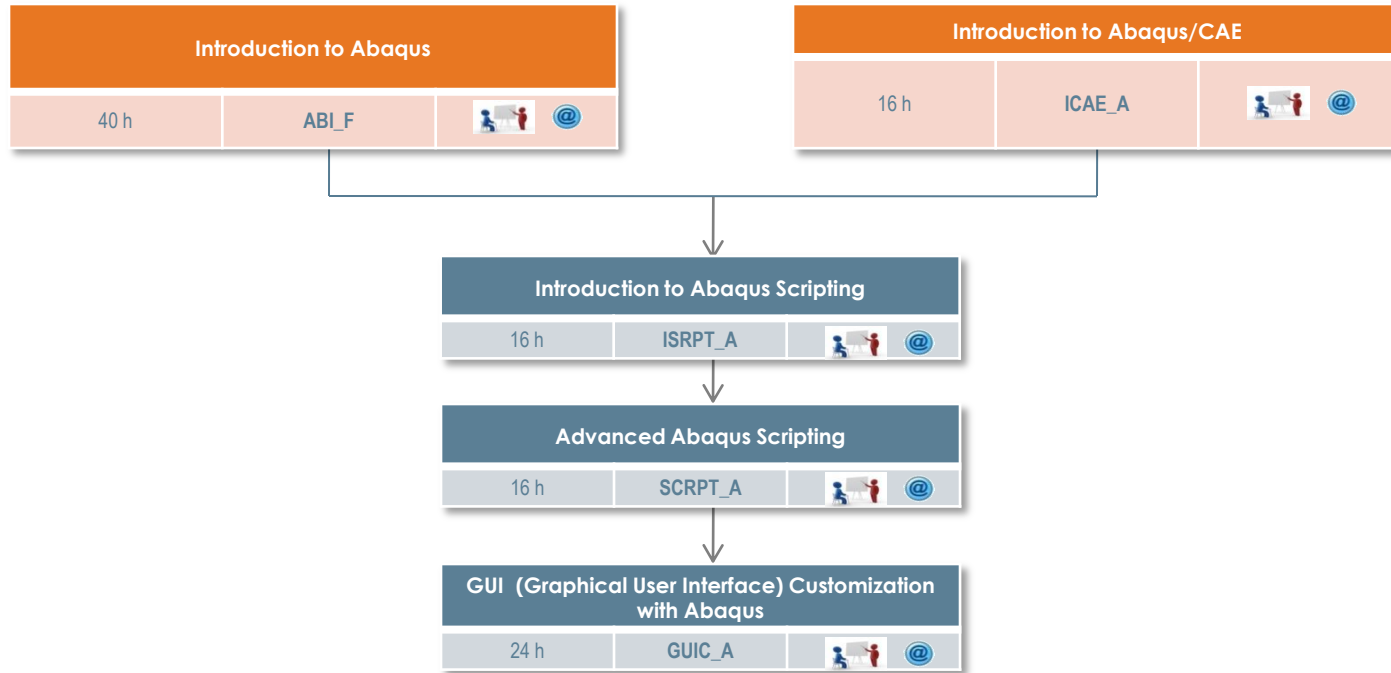
16 h

STENT\_A



# SIMULIA

## Analyst / Scripting and Customization Specialist



# SIMULIA

*Mechanical Designer / Analyst / Methods Developer / Manager / Business Analyst*

Choose among the following courses based on your particular area of interest

Introduction to SIMULIA Isght			SIMULIA Scenario Definition Essentials		
16 h	ISGT_F		16 h	SCE_F	

*Analyst / Systems Administrator*

**IFIP\_F is only ILT**

Introduction to SIMULIA Execution Engine (SEE)		
16 h	IFIP_F	

# CATIA V6 & SIMULIA V6

## Analyst / Mechanical Designer - Analysis Interest

