ALL SOFTWARE



Using the Python API to automate the setup and analysis

Do you want to further increase your productivity? Learn how to use the Python API to optimize your process!

The time you spend creating your simulation projects and analyzing the results of your calculations is usually very substantial. The operations you perform are often redundant and sometimes very time-consuming.

Python scripts will allow you to create projects, run calculations and analyze results with maximum automation. Typically, you will be able to create your custom process, manage your objects, import and generate meshes, define all types of parameters, automatically generate calculation variants, display only the

results you need in the optimal configuration, export your results and much more. This new feature offers many advantages: time saving, automation, securing projects, interconnection with your other digital tools. Whether you want to automate all or part of your operations, define constant or dynamic data or call a third-party application from FORGE®, everything is possible and imaginable This training is dedicated for you!

LEVEL



Intermediate

PREREQUISITES

A first experience with FORGE® software is required.

A first experience with NxT interface is required

Python programming knowledge is required

GOALS



- Discovering what the Python API could bring in automatization process
- Taking advantage of the new features of the interface to configure data and analyze results faster

OTHER RECOMMENDED COURSES



• FORGE® - Die analysis

DURATION	DATES 2023				
1 Day	15 February	23 June	07 August	9 November	
TRAINING		PRICE EXCL. TAX		PARTICIPANTS	

TRAINING	PRICE EXCL. TAX	PARTICIPANTS
Inter-company	540 € per person	3 to 8 people
In-company	1300 € per training	1 to 3 people

DAY 1 > 8.30 a.m. to 12.00 p.m. & 1.30 p.m. to 5.00 p.m.

Introduction	G.m. to 12.00 p.m. & 1.30 p.m. to 5.00 p.m. General presentation Course goals	30 Upsetting FORCE FORCE FORCE Force Incline order bedenick 31 1 Incline order bedenick 32 1 Inc
Why this API?	 Context Fxisting tools (Macros/ Customs Actions / Save Workspace) Prerequisites Current limitation Perspectives 	Jounton enformation 1816) Jounton enformation 1814 Jounton enforcement 1814 Jounton enforceme
Scripts structuire	 How the Python console works? Vocabulary (classes, functions, arguments) Links between different objects, simulations, attributes, properties 	
Setup scripts	 Understand existing scripts Work on a complete stage setup script Coding your own setup script 	THE STATE OF THE S
Amalysis scripts	 Understand existing scripts How to adapt them to your needs Code your own results analysis script 	Running the Hot_Rolling_Analysis.py script
Perspectives	What are the possibilities to go further and fully automate your setup and analysis tasks? Variable parameters, custom interfaces, execution in commands	
	- Questions and course assessment	, SE
	ADI)	DATABASE API request API arswer