

# Starting with Z-cracks

### Do you want to learn how to analyze fatigue cracks? Would you like to accurately predict crack paths and propagation kinetics? Discover how to use Z-cracks, the module for 3D fracture mechanics simulation.

This one-day training course is intended for engineers and researchers who already have relevant experience in fracture mechanics. The goal of this training is to demonstrate the

capabilities of the Z-cracks module to perform static crack analysis and crack propagation simulations.

#### LEVEL



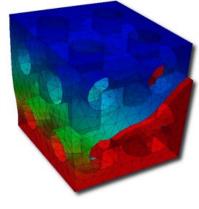
#### PREREQUISITES

A good basic knowledge of fracture mechanics is required.

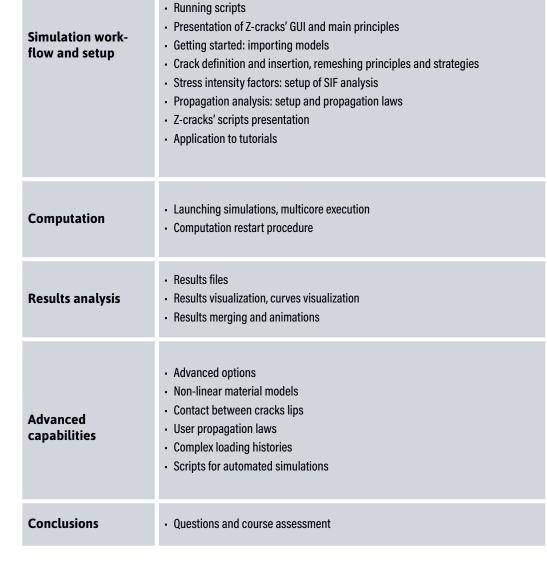
#### **GOALS**

- Understanding of Z-cracks' principles and simulation workflow
- · Setup of static crack and crack propagation simulations
- Launching computations
- Visualization, interpretation and analysis of results
- Introduction to advanced user capabilities

/////	TRAINING	DURATION	PRICE EXCL. TAX	PARTICIPANTS
	In-company	1 day	€1400 per training	1 to 3 people



Numerical simulation of a cracked combustion chamber under thermomechanical fatigue loading



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

Presentation of Transvalor

connection to external FE solvers

· Quick review of software installation (Linux, Windows), environment variables,

· Presentation of Z-set distribution (documentation, tests base)

· Course goals

Introduction

