

INTRODUCTION TO DYNAMIC BEHAVIOR OF MATERIALS AND ASSOCIATED SIMULATIONS

FOR01

In partnership with:



ABSTRAO

93.5%
client
satisfaction
rate

Total length of training: 16 hours

PREREQUISITES



Basic knowledge in the field of materials

TARGET POPULATION



Engineers, technical managers, R&D managers, PhD students, technicians in the field of the behavior of materials.

KNOWLEDGE TESTING METHOD



Final MCQ to validate the acquired knowledge, attested to by a training completion certificate

Date to be defined according to your needs

TRAINING OBJECTIVES



- Understand the issues related to the dynamic behavior of materials
- Understand the importance of taking the dynamic behavior of materials into account, in order to achieve high-quality numerical simulations.

COURSE CONTENT



- Presentation of fields of application
- Introduction to numerical simulation in fast dynamics
- Metrology for dynamic applications
- Principle and advantages of split-Hopkinson pressure bars
- Practical work in the laboratory:
 - Instrumentation of simplified ballistic testing and analysis
 - tests with split-Hopkinson pressure bars and analysis
 - testing with a gas gun and analysis
- Numerical simulation as a test analysis tool