INTRODUCTION TO DYNAMIC BEHAVIOR OF MATERIALS AND ASSOCIATED SIMULATIONS FOR01



In partnership with:





PREREQUISTES

Basic knowledge of 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 MCO to validate the acquired knowledge, attested to by a training completion certificate

FORTHCOMING SESSIONS

From June 20 to 22, 2023 From June 18 to 20, 2024 Total length of training: 16 hours Start: Day 1 at 11:00 | End: Day 3 at 12:00

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



- \cdot 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
- \cdot Numerical simulation as a test analysis tool