



SHOCK PHYSICS ACADEMY

Created by the company Thiot Ingénierie, the Shock Physics Academy offers courses on the subject of material dynamics and shock physics.

With over 30 years of experience and its level of expertise, THIOT INGÉNIERIE is opening its doors to this complex fields through exclusive courses covering both theoretical and practical aspects:

- Benefit from the knowledge and experience of renowned experts
- put into practice the theory in our laboratory thanks to our high tech testing equipment



94,5 %
customer
satisfaction



CONTACT

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Thiot Ingénierie's premises are classified as an establishment open to the public, and are therefore suitable for people with reduced mobility.

JUNE 20, 21 AND 22, 2023

start: June 20 at 11 am - end: June 22 at 12 pm
total duration of the training: 16 h



in english

INTRODUCTION TO DYNAMIC BEHAVIOUR OF MATERIALS AND ASSOCIATED SIMULATIONS

/FOR01-EN

2,500 €

PREREQUISITE

Basic knowledge in the field of materials

PURPOSE

- Know the issues related to the dynamic behavior of materials
- Be aware of the importance of considering the dynamic behavior of materials for high-quality numerical simulations

TRAINING CONTENT

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



KNOWLEDGE CONTROL PROCEDURE

A final MCQ to validate the acquired knowledge, attested by a certificate at the end of the training

TARGETED PUBLIC

You are an engineer, a technical manager, an R&D manager, a thesis student or a technician in the field of material behavior

SPECIAL EVENING

visit and restaurant in the medieval village of Rocamadour