



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



95 %
customer
satisfaction



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

WHO ARE THESE COURSES FOR?

(depending on topics)



- Scientist
- Numerical simulation engineer
- Materials & Structures engineer
- Laboratory staff member
- ...

JUNE 21, 22 AND 23

start: June 21 at 11 am - end: June 23 at 12 pm
total duration of the training: 16 h



in english

A SHORT INTRODUCTION TO SHOCK PHYSICS AND DYNAMIC BEHAVIOR OF MATERIALS

2,500 €

/FOR01-EN

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 in the dynamic stress context

TRAINING CONTENT

- Presentation of the fields of application and examples of expertise work
- Overview of Shock Physics
- 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