

HOW TO USE SPLIT-HOPKINSON BARS IN COMPRESSION AND TENSION FOR05

Total length of training: 16 hours
Start: Day 1 at 11:00 | End: Day 3 at 12:00

PREREQUISITES



Basic knowledge in materials and metrology

TARGET POPULATION



Engineers working in test laboratories

KNOWLEDGE TESTING METHOD



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

TRAINING OBJECTIVES



- Design of Split-Hopkinson bar tests
- Handling the equipment and the associated measurements, while complying with safety rules
- Calibrate a material law
- Develop a critical view on the results

COURSE CONTENT



- Presentation to the test bench
- Theoretical training on operation and use cases
- Safety when using bars
- Configuration of test equipment and metrology
- Practical work in the laboratory:
 - Handling of Hopkinson bars in compression and tension
 - Test sizing and pitfalls to avoid
- Specific sizing exercises
- Analysis of results and calibration of a material law
- Demonstration of particular configurations (materials/size and shape of specimen)
- Use of various metrology tools