

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

FOR05

Total length of training: 16 hours

## 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

Date to be defined according to your needs

## TRAINING OBJECTIVES



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