BALLISTIC IMPACT ON METALLIC MATERIALS: TESTS AND NUMERICAL SIMULATION FOR02



In partnership with:



Industeel

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



PREREQUISITES

TARGET POPULATION

KNOWLEDGE TESTING METHOD

TRAINING OBJECTIVES

· Learn about phenomena relating to perforation and penetration of armor/protection steels · Learn special methods for modeling these phenomena in order to conduct appropriate numerical simulations.



- · The challenges of terminal ballistics. Focus on the protection steel Mars® 600 with 3 case studies: perforation, adiabatic shearing and spalling
- · Description of the specific tools: test equipment, metrology, software
- Case 1 Perforation Presentation of main mechanisms, suitable models, analysis of a test result, simulation,
- test/simulation correlation
- · Case 2: Adiabatic Shear Bands (ASB). Presentation of main
- mechanisms, suitable models and calibration process, analysis of a test result,
- simulation, test/simulation correlation · Case 3: Spalling. Presentation of main mechanisms, suitable models and calibration process, spalling tests and analysis of results, simulation, test/simulation correlation
- · Examples of case studies relative to other types of material