

IFF MA 19/ EN

MAGNETOSCOPIC EXAMINATION LEVEL 2



TARGET AUDIENCE

Non-Destructive Testing Managers.



GOALS

- Know how to carry out magnetic particle examinations (level 1);
- Lead and assist level 1 MT technicians.



PREREQUISITES

- Visual acuity checked, minimum experience of one year as a MT operator.
- Must have completed the IFF MA 15 "Axle Examination - Level 1" course.



EDUCATIONAL MODALITIES

- This training combines theory and practical experience in a workshop equipped with several MT test stands with axles and other railway parts with characteristic defects.
- All standard equipment and apparatus will be used during the training.



DURATION: 9 Days



PROGRAM

- Know and understand the principles and purposes of non-destructive testing, to appreciate its possibilities and limitations;
- Define the different defects contained in the parts according to their manufacture, their use and the maintenance of the rolling stock;
- Know the physical phenomena involved in magnetic particle testing;
- Know the influence of currents on MT;
- Choose and implement the most suitable equipment for a MT test;
- Set up the most suitable lighting conditions for magnetic particle inspection;
- Know how to interpret the results of the inspection in the event of doubt on the part of the MT operator and to know how to decide what action to take;
- Write and structure a test sheet from a previously established specification.

• **Level 2 assessment:** Assessment of skills acquired at the end of training ➔ **Yes**