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Material.™

# MICROSTRUCTURES OF METALS AND THEIR EFFECTS ON SERVICEABILITY

(One-Day Programme)

## COURSE FORMAT

The subjects will be discussed using lecture techniques with use many sketches, actual microstructures, and other visual arts to illustrate the subjects being taught. The instructor will emphasize any of the subjects shown to meet the needs of the class attendees, will omit subjects not of particular interest, and can include any additional subjects of interest to the group.

### WHO SHOULD ATTEND?

- Maintenance Engineers
- Design Engineers
- Senior Inspectors
- Asset Integrity Personnel
- Inspection Personnel

### COURSE OUTLINE

- What are microstructures and what is learned from the study of them?
- Objective sampling of metals used in microstructural studies
- Brief description of sample preparation of the microstructural studies
- Microstructural tools
- What information can be learned from microstructural study of metals?
- What are the strengthening mechanisms of metals
- Use of microstructures to aid in study of metals failures