

**Duration:** 2 Days

**Fees:** 17,500 Baht / Person\*

**Training Sessions:**

4 – 5 April 2017 (Bangkok)

5 – 6 October 2017 (Rayong)

**Suitable for:**

Maintenance Engineers, Inspectors, QA/QC Engineers and Technicians

**Objectives:**

At the end of the course, you will be able:

- To understand the properties of superalloys at elevated temperature
- To characterize microstructure, phases and carbide in the superalloys
- To explain the relationship of microstructure and mechanical property
- To identify the corrosion and degradation of superalloys at elevated temperature
- To select the suitable superalloys for the application

**Content:**

*INTRODUCTION*

- Introduction to Alloy Groups
- History of Superalloys
- Production of Superalloys

*Basic Metallurgy of Superalloys*

- Microstructure
- Types of Carbide
- Precipitation
- Strengthening

*Mechanical Properties at Elevated Temperature*

- Mechanical Property
- Creep
- Structure and Properties relationships

*Oxidation and Corrosion at Elevated Temperature*

- Oxidation
- Degradation
- Hot Corrosion
- Superalloys Coating

*Application of Superalloys and Case Study*

- Applications of Superalloys
- Microstructural Degradation
- Failure of Superalloys
- Selection of Superalloys
- Case study

*CONCLUSION*

\* Excluding VAT - Published prices and schedules are subject to change without advance notification

\* Registration fees are inclusive of lunch and coffee breaks