Training Course Examples

We can develop new courses or modify the content and duration of existing courses according to client requirements. Our courses can be delivered online or in-person. Previous course examples are given below:

Course Title	Modules	Duration
Gas Turbine Technology	1. Design, Operation, Materials & Integrity/ Lifing Issues 2. Material Selection, Design, Material Degradation, Coatings, Repair & Life Assessment 3. Lifing of Hot-gas path components	4 - 5 Days
Steam Turbine Technology	1. Materials & Damage Mechanisms 2. Maintenance, Inspection & Repair 3. Life Assessment of Steam Turbines- Practical Examples	1 -2 Days
Life Management Foundation (LMF)	1. Plant Operation, Damage & Life Assessment 2. Failure Avoidance & Advanced Assessment of Complex / Welded Components 3. Damage & Defect / Crack Assessment under Creep & / or Fatigue Conditions	6 days
Power Plant Boiler Inspection, Maintenance & Monitoring	1. Plant Maintenance Issues 2. Plant Inspection & Monitoring 3. Introduction to Risk Based Maintenance 4. Workshop	1-2 Days
Supercritical Plant- Design, Materials, Operation & Maintenance	1. Plant Design Characteristics 2. Materials of Construction 3. Damage Mechanisms & Life Assessment 4. Operation & Maintenance Experience	5 Days
Design of Boiler Combustion Systems and Retrofit Technology	1. Design of Boiler System 2. Design Technology of Boiler Combustion Technology 3. Design of Boiler Tube Heating Surfaces & Sizing of Pressure Parts 4. Boiler Retrofit Technology & Boiler Combustion Optimisation	4 Weeks
Turbine Failure Analysis & Life Assessment	1. Steam Turbine Component Damage Mechanisms 2. Gas Turbine Design, Operation, Materials & Integrity/ Lifing Issues 3. Steam Turbine Component Failure 4. Gas Turbine Component Degradation & Failure 5. Fundamentals, Cyclic operation & Refurbishment 6. Gas Turbine Materials Selection & Related 7. Lifing of GT Hot-gas path components 8. Steam Turbine Component Integrity/Lifing Issues 9. Analytical & numerical models for remaining creep life estimation	3 Weeks
Boiler/HRSG and Steam Turbine Remaining Life Assessment & Extension	1. Overview of Component Life Assessment & Damage Mechanism 2. Life Methodologies / Available Tools 3. Component Life Assessment 4. Plant Life Management	5 Days – 4 Weeks
P/T 91	1. Material Properties & Heat Treatment 2. Steam-Side Oxidation of Thin Wall Tubing 3. Welding & Welded Component Behaviour 4. Component Integrity / Life Assessment	2-3 Days
HRSG Integrity	1. Principles of HRSG Design & Cyclic Operation Related Issues 2. HRSG Materials, Welding, Water Treatment, Corrosion & Other Failure Mechanisms 3. Inspection, Monitoring & Maintenance Issues 4. HRSG Component Life Assessment & Workshop	2-3 Days
P/T 23	1. Material Properties & heat Treatment 2. Weld Consumables & Welding Issues 3. Steam Side Oxidation, Component Integrity/Life Assessment	1- 2 Days
Risk Based Maintenance & Inspection (RBMI)	1. Management Programme Level 2. Implementation Programme Level 3. Component Condition Programme Level 4. Prioritisation	2-3 Days

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