



Consulting and Training | Reach New Heights

Course Name

Mechanical Failure Analysis

Sector Name

Mechanical Engineering

Document Type

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Mechanical Failure Analysis

Course Introduction

Solve the machinery failure problems costing you time and money with this classic, comprehensive guide to analysis and troubleshooting through a systematic approach to fault diagnosis and failure prevention in a broad range of machinery. Participants will analyze a system's failure modes and define how to prevent or find those failures early, learn techniques, tools and the procedures of root cause failure analysis and failure mode effective analysis as a proactive strategy for achieving precise operation and improving machinery performance.

Machinery troubleshooting and problem solving

The key methods of preventive maintenance are demonstrated through the study of examples and a progressive approach to machinery troubleshooting and problem-solving. Case studies will provide a forum for problem formulation, investigation, and resolution.

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Mechanical Failure Analysis

Target Audience

- ✓ Automotive Engineer
- ✓ Boiler Engineer
- ✓ Ceramics Engineer
- ✓ Equipment Engineer
- ✓ High-Pressure Engineer
- ✓ Marine Engineer
- ✓ Mechanical Design Engineer
- ✓ Mechanical Engineer
- ✓ Naval Architect
- ✓ Pipeline Engineer
- ✓ Power Engineer
- ✓ Rotating Equipment Engineer
- ✓ Senior Mechanical Engineer
- ✓ Turbine Engineer
- ✓ Validation Engineer

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Learning Objectives

- ✓ Familiarizing with mechanical failure analysis
- ✓ Learning failure modes and designing fail-safe systems
- ✓ Understanding the service and maintenance requirements for machine failures

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Mechanical Failure Analysis

Course Outline

✓ 01 DAY ONE

Introduction to failure analysis

- ✓ Objectives of failure analysis
- ✓ Classified material and selection criteria
- ✓ Mechanical properties
- ✓ Causes of failure

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Mechanical Failure Analysis

Course Outline

✓ 02 DAY TWO

Mechanism/modes of failure:

- ✓ Overload & single load
- ✓ Buckling
- ✓ Impact
- ✓ Fracture (brittle & ductile)
- ✓ Methods of failure analysis
- ✓ Tensile test
- ✓ Impact test
- ✓ Phases of failure analysis & general principles of failure analysis
- ✓ Case study

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Course Outline

✓ **03 DAY THREE**

Dynamic failure modes

- ✓ Fatigue
- ✓ Creep
- ✓ Wear
- ✓ Corrosion

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Course Outline

✓ 04 DAY FOUR

Crack growth

- ✓ Failure rate
- ✓ Hazard analysis
- ✓ Impact testing
- ✓ Fatigue testing

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Course Outline

✓ 05 DAY FIVE

Failure testing

- ✓ Improving fatigue life
- ✓ Improving creep life
- ✓ Structural examples
- ✓ Bearing example

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
July 5, 2027	July 9, 2027	5 days	4250.00 \$	UAE , Dubai
Jan. 17, 2027	Jan. 21, 2027	5 days	4250.00 \$	KSA , Al Khobar
Sept. 28, 2026	Oct. 2, 2026	5 days	4950.00 \$	Spain , Madrid
Jan. 4, 2027	Jan. 8, 2027	5 days	4250.00 \$	UAE , Dubai

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