Failure Analysis Level 1 Training

®

When technicians step into a Failure Analysis Services classroom, they get more than just a class - they step into a hands-on learning experience guided by industry veterans with decades of real-world know-how. Our instructors don't just teach, they answer questions, share field stories, and connect theory to the work your people do every day. Students leave energized, confident, and ready to apply their new skills immediately. We make people better problem solvers.

Course overview

Failure Analysis Services FA Level 1 is a 32-hour, four-day program that blends interactive lectures, multimedia presentations, and extensive hands-on labs. Modules are crafted so students move from concept to practice every day, finishing with team-based case studies that prove competency.

What makes this course different

- Hands-on labs with real components: bearings, crankshafts, pistons, rings, liners.
- Instructors with decades of field experience who teach through stories and practical examples.
- Knowledge checks after key modules and team case studies to demonstrate competency.
- Focus on failure management, metallurgy, fracture and wear identification, and service communication.

At a glance — four day course

1. Day 1: failure management, visual inspection, photography, metallurgy basics, fracture types, and introductory wear labs.
2. Day 2: deep dive into wear and fracture, engine bearings lab, and road-sign recognition for failure indicators.
3. Day 3: crankshaft fracture analysis, detailed labs, and review of bending and torsional fracture mechanisms.
4. Day 4: pistons, rings and liners labs, final team case studies, presentations, course recognition and certificates.

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Tools and resources provided

- Electronic tablet for presentations and labs
- USB flash drive with all presentations and reference material*
- Spiral-bound failure analysis notebook and stylus pen*
- Loupe magnifier for close inspections*
- Technical support contact after the course

*** Students keep these items**

Logistics

Duration: 32 hours (four consecutive days, 8:00 am to 4:00 pm)

Format: instructor-led presentations, labs, quizzes, and team case studies

Class size: optimized for hands-on labs (recommended limits available upon request)

If for any reason there is a need to contact failure analysis services, inc. Regarding this learning program, the following personnel should be contacted:

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