Failure Analysis Level 2 Training

Our Level 2 Failure Analysis class takes everything students learned in Level I and pushes it further. Over four days, students spend 32 hours immersed in advanced labs, interactive lectures, and real-world case studies. Industry experts with decades of experience bring the material to life by answering questions, sharing field stories, and connecting advanced concepts to everyday equipment challenges. Students leave excited about what they've learned and confident in how it applies across multiple areas of their jobs.

What makes this course different

- Advanced labs that build on Level I fundamentals
- Focus on lubricants, anti-friction bearings, gears, and shafts with failure modes and analysis
- Hands-on labs and knowledge check quizzes after nearly every presentation to reinforce skills
- Emphasis on customer service, troubleshooting, salvage repair techniques, and critical thinking
- Capstone case studies where teams analyze failures, determine root cause, and present findings

At a glance — four-day course

1. Day 1: Review of Level I concepts, extensive wear and fracture lab, introduction to lubricants and their failure modes, lube lab with microscopic filter inspection, and contamination identification, DEF contamination testing
2. Day 2: Anti-friction bearings — from manufacturing and installation to wear and failure modes, reinforced with hands-on labs
3. Day 3: Gears — identifying wear and fracture patterns, causes, and hands-on lab analysis
4. Day 4: Shafts — bending, torsional, and shear, shaft fracture analysis, capstone case studies, team presentations, and certificate presentations

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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 4:30 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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