Failure Analysis Level 3 Training

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Our Level 3 Failure Analysis class is where advanced knowledge meets real-world application. Across four days and 32 hours, students dive deeper into complex failure modes, advanced lab work, and critical reporting skills. Guided by industry veterans with decades of experience, participants engage in discussions, interactive presentations, and extensive hands-on labs. They leave not only with advanced technical skills but also with the confidence to apply them across multiple industries and components.

Note: Level FA Level 1 is a prerequisite for this class

What makes this course different

Advanced curriculum building on wear and fracture fundamentals from Levels I and II

- Special focus on oil analysis, its tests, and interpreting real-world results
- Detailed instruction on writing professional failure analysis reports and presenting findings
- Hands-on labs covering valves, hydraulic pumps, and turbochargers
- Continued emphasis on customer service, troubleshooting, salvage repairs, and critical thinking skills

At a glance — four day course

1. Day 1: Review of wear and fractures, extensive labs, and terminology exercises; introduction to oil analysis and interpreting results
2. Day 2: Failure analysis report writing — from structure to photography and communication; engine valves presentation and lab practice
3. Day 3: Gear and piston-type hydraulic pumps — identifying wear, fractures, and causes through detailed labs
4. Day 4: Turbochargers — in-depth lecture and hands-on labs focused on diagnosing and preventing failures

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**

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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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