

# ELECTRICAL

## Failure Scene Investigation Techniques®

*A comprehensive course in failure analysis techniques for professionals whose job it is to eliminate surprises and increase mean times between equipment and systems breakdowns*

*This workshop is only available on-site at your facility*

Just as in any crime scene, the dissemination of the clues uncovered provides the answers that solve the mystery. This comprehensive 3 day hands-on workshop in failure scene investigation techniques provides the participants with the skills and knowledge to strategically obtain and interpret the data necessary to solve mechanical failure by demonstrating how different analytical tools are used to prove or disprove hypotheses.

Upon completion of this course the participants will be able to develop thorough and accurate data collection strategies that will uncover the order and pattern that lead to failure. Participants will have the ability to recognize different failure patterns and mechanisms and determine what verification techniques are applicable in the context of an overall approach to Root Cause Analysis.

### Major topics include:

- Material Failures - insulation and cable
- Rotating Equipment Failures - motors & generators
- Breakers, Transformers, Switches
- Sensors, Transmitters, Processors
- Electronic Equipment
- Ancillary electrical and I&C equipment

Once the Failure Scene Investigator has determined the root cause(s) of the failure mechanism, he or she is then taught how to write a report that will accurately articulate his or her findings. The final report provides the necessary evidence to obtain the resources needed to implement solutions to proven root cause(s) - effectively convicting the criminal (failure).



This advanced course is designed for field, technical and engineering personnel who are primarily responsible for determining the causes of equipment, process and human failures, or for providing input on failed parts and general data collection when failure occurs.

**For more information, dates and costs contact RCI at 804-458-0645 or [info@reliability.com](mailto:info@reliability.com). Online registration is also available at [www.Reliability.com](http://www.Reliability.com).**

Training for Field, Technical and Engineering Personnel



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"The workshop was very interesting with exceptional explanation of failure and what caused them. The examples provided were real world experiences."

*James Dingus, Philip Morris USA*



**Reliability Center, Inc.**

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