

Appliance Failure Analysis Seminar Outline

A full day seminar offered at GAI's Laboratory

Theories of Operation

Potential Energy
Kinetic Energy
Heating Elements
Motors
Switches
Thermostats
Transformers
Materials

Types of Appliances

Major Appliances
Portable Appliances

Witness Interviews

General Background
Events of the Failure
Product Information

Scene Examinations

Documentation
Photography
Systems Testing
Evidence Collection

Laboratory Examinations

Documentation
Photography
Radiography
Testing
Disassembly

Testing

Electrical
Mechanical
Thermal
Ignition

Failure Modes

Scientific Method
Failure Mode & Effects Analysis
Fault Tree Analysis