

From past participants

“The demonstrations are the key to learning and made the class even more enjoyable. They’re extremely effective for seeing results.”

“It’s a must-attend seminar if you want to become more professional in the business.”

“The new lab setting is very conducive for learning.”

“The best part of the seminar? For me, all of it!”

“Jack and Jim were born to instruct as a team with just the right amount of information coupled with comedy.”

“Great explanations for what to look for during failures.”

“I especially liked the staff’s ability to demonstrate actual failures.”

“The instructors were very open to questions.”

“Very enlightening, both from basic education and from the discussion of ways people cause accidental and intentional damage.”



Investigation of Gas and Electric Appliance Fires

An intensive in-lab program for fire investigators.

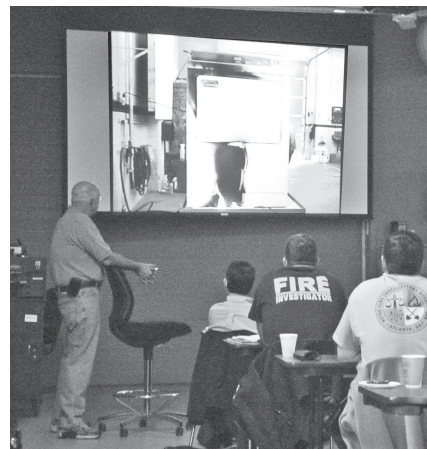
Sign up now for 2012!
Class sizes are limited.

Now in its 21st year! Twice annually by popular demand.

April 17-20, 2012 or November 6-9, 2012

Optional CFI test credits (30 hours) and continuing education credits (2.5 CEUs) available.

- ✓ Learn how appliances and electrical components work, fail and cause fires.
- ✓ Spend four days with experts on-site at Fire Findings Laboratories.
- ✓ Examine actual appliances and appliance components that have failed, causing fires.
- ✓ Witness fire-causing demonstrations involving:
 - Gas furnaces
 - Gas water heaters
 - Gas and electric clothes dryers
 - **New!** Dishwashers
 - **New!** Ranges and microwave ovens
 - **New!** Refrigerators
 - **New!** Toasters, space heaters and other small appliances



Video projection of artifacts allows everyone in the class to see exactly what instructors are discussing.

(Note: We have refocused the appliance fires class to concentrate only on appliances, how they work and how they fail. For discussions about high resistance connections, floating neutrals, causes of electrical failures, etc., you’ll want to attend the two-day session, “Residential Electricity for Fire Investigators.” Next session is May 9-10, 2012. How about joining us for both classes?)

Held on-site at Fire Findings’ laboratory testing facility,
2026 Plaza Drive, Benton Harbor, Michigan, 49022.

Just 40 minutes from South Bend (Indiana) or Kalamazoo (Michigan) airports and 2 hours from Chicago airports.

St. Joseph/Benton Harbor is located along the southern shores of Lake Michigan — a gorgeous area to visit and home of the 2012 and 2014 Senior PGA Championships!

Tuition is **\$850** per person for the four-day session.

Who should attend?

- ✓ In-the-field fire investigators.
- ✓ Fire and police department investigators.
- ✓ Insurance investigators and attorneys responsible for origin and cause determinations.

This course is practical, hands-on learning for fire investigators.

Why attend?

“Investigation of Gas and Electric Appliance Fires” is different from traditional fire schools because you see dozens of actual demonstrations of fire-causing failures in a laboratory setting.

Then, you apply your new-found knowledge by examining items from fires, photos and background histories to test your ability to reason out the cause of each fire.

Course background

“Investigation of Gas and Electric Appliance Fires” is a hands-on learning experience conducted in the Fire Findings laboratory. You’ll learn how appliances work, fail and cause fires, as well as how to examine them.

Jim Finneran and Jack Sanderson, experts in fire origin and cause, created this investigation course 21 years ago to satisfy the need for hands-on technical experience that can’t be achieved in a traditional classroom setting. They developed the curriculum, wrote and illustrated the course notebook and designed and built more than 25 product-failure demonstrations.

During the 4-day course, you’ll test yourself by examining normal, failed and tampered-with components and appliances to gain practical experience for field examinations. You’ll analyze actual case studies from your instructors’ files and see how X-ray examinations provide an introduction to nondestructive testing.

Your \$850 tuition also includes a notebook loaded with more than 175 pages of original material, including failure discussions, component drawings and diagrams. Your notebook is written especially for this seminar by *Fire Findings*’ experts. Optional test credits toward CFI certification are also available along with continuing education credits.

About your instructors

Jack L. Sanderson is a certified fire investigator (CFI) specializing in appliance failures. He’s also completed Honeywell, Whirlpool, Maycor and National Propane Association factory training. Sanderson, with more than 30 years of in-the-field experience, is a nationally recognized speaker, expert and author on appliance fires.

James M. Finneran, who specializes in electrical failures and fires, has been involved in several of the largest product recalls by the U.S. Consumer Product Safety Commission. He has testified in major product failure fire cases throughout the United States and also serves as a representative on the NFPA 921 Technical Committee on Fire Investigations.

Finneran and Sanderson have instructed thousands of investigators, attorneys and insurance representatives. The Bureau of Alcohol, Tobacco, Firearms & Explosives (ATF), the U.S. Consumer Product Safety Commission (CPSC) and numerous state chapters of the International Association of Arson Investigators (IAAI) have also called on them to present training sessions.

Nathan P. Dwyer, *Fire Findings*’ electrical expert, is a CFI specializing in electrical fire investigation and fire-involved appliance analysis. He has been a speaker at various IAAI conferences and is an excellent presenter who makes difficult subjects understandable.



Displayed artifacts recovered from actual fire scenes or preserved from testing illustrate instructors’ lessons.

Course outline

Gas appliance topics

High- and low-order explosion demonstrations
Natural vs. LP gases
Potential gas piping failures
Gas regulator functions with demonstration of cut-a-way regulators
Excessive and inadequate pressure demonstration
Operation of combination gas valves
Safety shutoff demonstration
 Ignition of gas leaking through shutoffs
Operation of water heaters
 Demonstrations of water heater failure modes
 How to examine failed water heaters
 Investigation of possible water heater fires

Operation of standard and high-efficiency furnaces
 How to examine components
 (high limits, fan switches, thermostats)
Demonstrations of furnace failure modes
 How to examine failed furnaces
 What to look for in suspected furnace fires
Water heaters and furnaces as incendiary devices
Operation of clothes dryers
 Examination of components (high limits, heating elements, timers)
 Role of lint
 Failure modes
 Examination of failed dryers – what to look for
 Investigation of suspected dryer fires
 How to identify a dryer's manufacturer

... and more!

Electric appliance topics

Ranges: Did the range come on by itself or did someone leave it operating?
 Infinite control switches – how they work and how to examine them post-fire
 Fire-causing failure modes: unzipping a range's heating elements, control panel fires
Refrigerators: Too cold to burn? Obviously not.
 Examination and identification of components – where and what they are
 Appreciation of a refrigerator's contribution to a fire: fuel!
 Fire-causing failure modes
Dishwashers: What was that about not combining electricity and water?
 Examination and identification of components – where and what they are
 Heating element, timer, limit and float switches
 The role of rinse-aid
 The dangers of mixing electricity and water

Microwave ovens: What's inside? Examination and identification of components
 Fire-causing failure modes
 Incendiary devices
Small appliances fires
 As time permits, fans, toasters (today's toaster is not the same as your mother's appliance), clothes irons (they seem like obvious fire causes but maybe not), space heaters and coffeemakers, etc.
What is and isn't a fuel when it comes to appliances
Using fire investigation principles on a macro-scale – adapting arc-mapping to appliance fire analysis
Avoiding spoliation claims using nondestructive methodology
Does a product recall make a fire cause? Doesn't no recall mean the appliance didn't start the fire?

**Lots of
new material!**

*Hot coffee or tea, juice and continental breakfast at 8 a.m. daily.
Snacks and sodas throughout the day. Friday lunch included.*

*Classes start at 8:30 a.m. and end at 4:30 p.m. daily,
except the last day
when the seminar ends promptly at 2 p.m. with the presentation of certificates.*

Visit the Fire Findings Web site for photos, seminar details and on-line registration.

www.firefindings.com

What you get

Your \$850 tuition to "Investigation of Gas and Electric Appliance Fires" includes:

- ✓ 4 days of intensive, in-lab, hands-on instruction, case histories and live demonstrations.
- ✓ Comprehensive 175-page notebook with material found nowhere else, failure discussions, and component drawings and diagrams. (*Many say the notebook alone is worth the tuition.*)
- ✓ Deluxe continental breakfasts and snack breaks all days; snacks and sodas anytime.
- ✓ Lunch on the last day.
- ✓ Answers to your questions about appliance failures and investigating appliance fires.
- ✓ A framed certificate recognizing your participation.
- ✓ Optional CFI test credits and CEUs available.

Easy registration for 'Investigation of Gas and Electric Appliance Fires,' Apr 17-20 or Nov 6-9, 2012



Fax

*your completed enrollment and credit card or government voucher number to 269-925-2204.***



Phone

*for information and openings, 269-925-2200.***



Mail

*this completed enrollment to:
Fire Findings L.L.C.
2026 Plaza Drive
Benton Harbor, MI 49022-2212.*

On-line registration available at www.firefindings.com.

Who will attend?

Name _____

Title _____

Organization _____

Street _____

City/State/ZIP _____

Ph _____ FAX _____ E-mail _____

Years of experience in fire investigation _____

Number of hours of origin/cause investigation classes _____

Brief description of your present career responsibilities _____

Just two sessions in 2012!

April 17-20, 2012 November 6-9, 2012

How do you prefer to pay your tuition?

Check enclosed Government voucher or purchase order enclosed
Please make payable to Fire Findings, L.L.C. (Fed ID # is 38-328-2454)

Bill my credit card (*check one*) MasterCard Visa Discover

Card # _____ Code _____ Exp. date _____
(3-digit security code on the back of your card)

Cardholder name (*please print*) _____

Cardholder signature _____

Hurry! Both sessions are limited to the first 48 registrants.

For more information and seminar openings, call (269) 925-2200 or fax (269) 925-2204. Check seminar availability before making any hotel, auto or flight reservations. ****Note:** If you dial our area code (269) and can't get connected to us, e-mail info@firefindings.com or fax (269) 925-2204.

Special lodging rates are available.

Call the *Holiday Inn Express - Benton Harbor* at (269) 927-4599 for a special rate of \$74 per night for double or king rooms. King leisure suites with pull-out sofa bed, microwave and refrigerator are \$94 per night. Add 8% tax. Free expanded continental breakfast and indoor pool and spa on site. This is a "first-come, first-serve" special rate, so make your reservations early. To get this rate, mention Fire Findings when making a reservation.

For a free visitor information packet and area maps, call the Southwestern Michigan Tourist Council at (269) 925-6301.