



Legal and Liability Risk Management Institute



National Fire Arson Investigation Training Institute

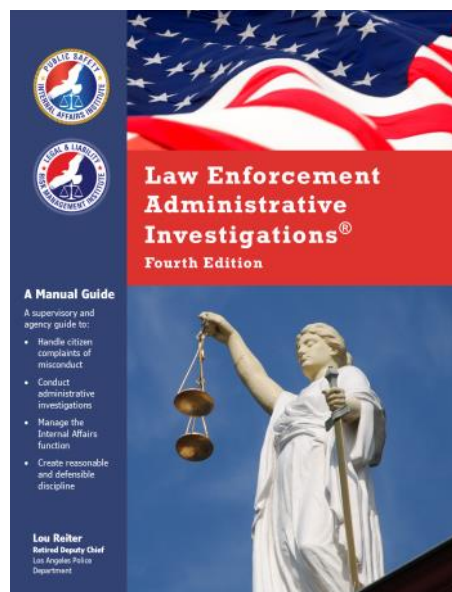
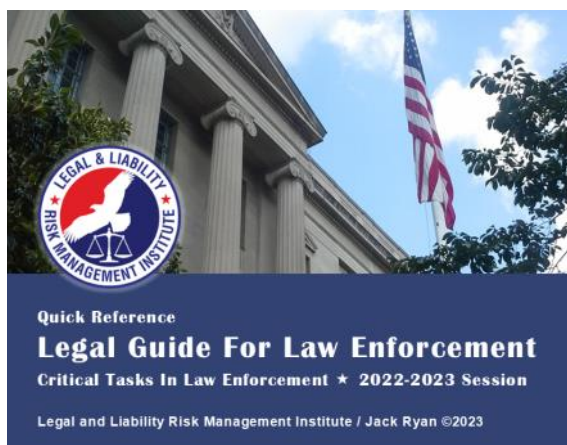
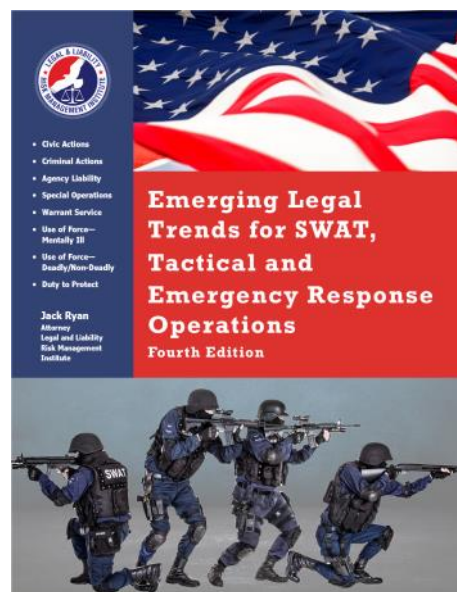
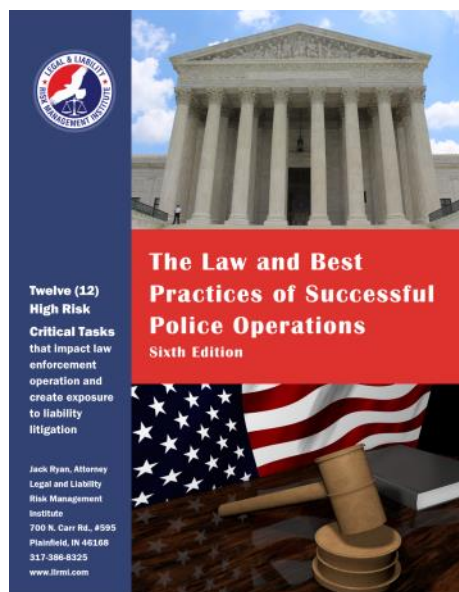
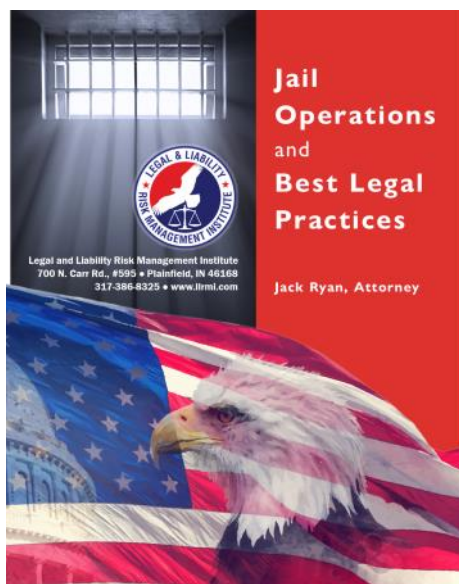
Based on NFPA®921-2021 Edition and NFPA®1033-2022 Edition

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Legal and Liability Risk Management Institute

2025 Training Catalog

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FIRE

2.5-Day New Fire/Arson Investigator

Instructor: Steve Riggs

Course Overview

This course is to provide Fire Investigators, Law Enforcement Personnel, Insurance Investigators, D.A. Prosecutors, and Private Fire Investigators responsible for Fire Investigation with a course of study covering investigative techniques used to properly investigate and conduct a Fire Origin and Cause Investigation. This course of study will reference NFPA 921 Guide for Fire and Explosion Investigations and NFPA 1033 Professional Qualifications for Fire Investigators, and NFPA 1321.

Course Objectives

- ★ **Overview Of Fire Behavior:** Provide knowledge of combustible materials and the different effects that temperatures, melting points, and conditions it will have on fire behavior. Examine the different stages of fire and discuss the fire indicators and how that information can lead the investigator to the origin and cause of the fire.
- ★ **Assembling your case:** We will discuss the different roles of everyone that will be involved in the investigation and their effect on the investigation. Proper scene security benefits of a systematic and scientific investigation with the proper documentation for the examination.
- ★ **Fire Scene Diagramming:** The course will include the importance of documentation with diagrams and the useful benefits a diagram will provide. Example diagrams will be provided.
- ★ **Building a Trial Notebook For Prosecution:** Finding the area of origin and determining the cause, documenting the contents, interviewing witnesses, owners and occupants, types of potential evidence present at the scene, identifying evidence, photographing the evidence, packaging the evidence, writing a search warrant affidavit and presenting expert opinions.
- ★ **Types of Fire Setters:** A study of motives and characteristics of different fire setters.
- ★ **Insurance Companies:** Information often overlooked by investigators. Insurance Companies that is more than ever involved in the investigations within their SIU (Special Investigative Units). We will discuss what information can be shared and the benefits of working together and the Arson Reporting Immunity Act.
- ★ **Excerpts of Federal Laws/Case Laws:** An overview of some of the most important laws that pertain to fire investigation and certain case law that affects the investigator in his/her job as a fire investigator.
- ★ **Courtroom Testimony:** A case can be won or lost with just one question in a courtroom setting. Learn to be prepared for common questions encountered and how to best prepare for court or depositions.
- ★ **Writing an Origin and Cause Report:** A properly written and documented report with all of the facts from the case including a systematic approach and the use of a scientific method are a must in today's investigations.

5-Day New Fire/Arson Investigators Academy

Instructor: Steve Riggs

Course Overview

This course will provide information that will prepare the student for making presentations in legal proceedings, preparation of reports that will be usable for criminal prosecution and help to meet department requirements.

Upon completion of this course, the student shall be able to inspect and evaluate the fire scene to determine the area and/or point of origin, source of ignition, materials first ignited and the act or activity that brought the ignition source and materials together. The necessary tools and equipment to perform the investigations will also be listed and the usage of each discussed.

The student will be able to prepare diagrams and take photographs of the scene and utilize several forms of field notes necessary to compile the final report.

The student will be able to identify, collect and preserve evidence recovered at the fire scene using the proper physical and legal procedures to retain the usefulness of the evidence in court proceedings.

The student will be able to conduct interviews to obtain usable information in the assistance of determining the origin and cause of the fire and in preparing the final report.

Course Objectives

- ★ Conducting a valid, legal, and proper origin and cause investigation is the first step in working towards a criminal investigation in an arson cause. It is also important in the investigation of accidental fires so future fires and injuries may be prevented.
- ★ This course will cover the necessary investigation practices for the new and not so new fire investigator. Upon completion of this course, the student will have the necessary tools to become a well-trained fire investigator. The training will assist and prepare the investigator for the challenges they may face in both criminal and civil investigations and court settings.

Fire Pattern Recognition and Identification

Instructor: Steve Riggs

Course Overview

The purpose of this training course is to provide Fire and Law Enforcement Investigators, Insurance Investigators, Private Investigators, Engineers and Prosecutors with an understanding of Fire Patterns and their Interpretations.

Course Objectives

- ★ **Chemistry and Physics:** The determination of the origin of a fire involves the coordination of information derived from burn patterns, observations, chemistry and physics of fire. In this segment we will review the chemistry and physics of fire. It is important to have a thorough understanding of “fire” in order to make an accurate determination as to the area of origin and possible causes.
- ★ **The Fingerprints of Fire:** As with any scene there are several identifying characteristics that may be located and evaluated at the scene, we will call these patterns the “Fingerprints of Fire.” Fire Patterns are the visible or measurable physical effects that remains after the fire. Fire patterns must be validated for use in determining the origin of a fire. In this section we will cover the validated fire patterns and their various meanings.
- ★ **Case Studies:** We will review actual case studies. Students will review the provided information and report their conclusions to their peers in the class.

Hands-On Electrical Fire/Arson Investigation

Instructor: Steve Riggs

Course Overview

This training module will provide the fire/arson investigator with practical and technical skills necessary to investigate and determine the electrical origin and cause of a fire. This training module will provide both classroom and hands-on training with practical exercises on how to use electrical testing equipment and conduct a systematic accurate examination of electrical equipment, appliances, wiring and electrical circuits.

Attendees will be provided with the necessary knowledge of electricity, the definition of electricity, how it causes fires, and how to testify in court for successful prosecution, and/or insurance determination.

We recommend you bring with you an electrical appliance (Toaster, Coffee Pot, Hair Dryer, etc., that you NO LONGER NEED).

Important — This training is presented in a very user friendly and easy to understand method of instruction. This **IS** NOT presented from an electrical engineer's perspective. You **WILL** be able to put into immediate investigative practice the skills that you learn in this training.

Important for NAFI-CFEI®, and IAAI Certified Fire Investigators (IAAI-CFI®), at the end of this course, a post-test will be given toward IAAI points, and CFEI hours for re-certification or future testing. "The Certified Fire and Explosion Investigator (C.F.E.I.) Examination" (National Association of Fire Investigators) Certifications will be granted to those whose applications are accepted and pass the examination. Applications for membership and certification will be available at the class.

For additional information, call the NAFI office (877) 506-NAFI or visit the Website at www.nafi.org. You must be a member of NAFI to be eligible to take the certification test. The NAFI membership application can be completed and turned in with the certification test. You must remain an active NAFI member to maintain your certification status. **"Certification testing will be offered immediately following the first or second day of training"**

Please go to www.nafi.org to download the CFEI application and have completed it prior to class. Bring completed application to the class. **DO NOT MAIL APPLICATION TO NAFI.**

Course Objectives

Attendees will have been provided the skills and knowledge to:

- ★ Demonstrate the proper sequence for investigating electrical fires.
- ★ Understand electrical terminology.
- ★ Demonstrate a working knowledge of 120/240 volt wiring used in residential and commercial settings and testing procedures.
- ★ Demonstrate a working knowledge of electrical appliances and testing procedures.
- ★ Demonstrate a working knowledge of electrical testing equipment, volt ohm meter, and ampere meter.
- ★ Demonstrate a working knowledge of safety devices, controls, and failures on appliances.
- ★ Demonstrate the knowledge of how to document an electrical origin.
- ★ Demonstrate knowledge of National Fire Protection Association 921 and National Fire Protection Association 1033.
- ★ Demonstrate knowledge of how to use the internet to conduct fire/arson investigation research and obtain electrical equipment/appliance recall information.
- ★ A download resource password will be provided to each attendee to download the class resources for future reference.

Hands-On Vehicle Fire/Arson Investigation

Instructor: Steve Riggs

Course Overview

This 2½ day training module will provide the fire/arson investigator with the practical and technical skills necessary to investigate and determine the area of origin(s) of vehicle fires. This training module will provide both classroom and hands-on training with practical exercises on how to conduct a systematic, thorough, and scientific examination of the vehicle.

Attendees will be provided with the necessary knowledge of vehicle design, electrical systems, fuel systems, and their components that will be encountered in a motor vehicle, including alternative fuels. We will examine how these components can fail or cause fires.

For the practical exercises, we will provide evidence collection containers, evidence tape, digital cameras, gloves, and all necessary investigation equipment to conduct a practical vehicle examination. This exercise may require some vehicle reconstruction. We recommend you bring a helmet or hard hat, coveralls, boots, or whatever you feel is appropriate.

Important for NAFI-CFEI®, and IAAI Certified Fire Investigators (IAAI-CFI®), at the end of this course, a post-test will be given toward IAAI points, and CFEI hours for re-certification or future testing. “The Certified Fire and Explosion Investigator (C.F.E.I.) Examination” (National Association of Fire Investigators) Certifications will be granted to those whose applications are accepted and pass the examination. Applications for membership and certification will be available at the class.

For additional information, call the NAFI office (877) 506-NAFI or visit the Website at www.nafi.org. You must be a member of NAFI to be eligible to take the certification test. The NAFI membership application can be completed and turned in with the certification test. You must remain an active NAFI member to maintain your certification status. “Certification testing will be offered immediately following the first or second day of training”

Please go to www.nafi.org to download the CFEI application and have completed it prior to class. Bring the completed application to the class. DO NOT MAIL APPLICATION TO NAFI.

Course Objectives

Attendees will have been provided the necessary skills and knowledge to:

- ★ Demonstrate the proper systematic approach and scientific method necessary for examining vehicle fires.
- ★ Understand basic vehicle design and electrical systems.
- ★ Demonstrate a working knowledge of wiring used in motor vehicles and the presence of electrical activity on those wires.
- ★ Demonstrate a working knowledge of safety devices (fuses, breakers and fusible links or cartridges).
- ★ Demonstrate the knowledge on how to properly document the vehicle fire.
- ★ Demonstrate the knowledge to photographing the vehicle fire scene in a systematic manner.
- ★ Demonstrate the knowledge of collecting evidence from the vehicle fire scene.
- ★ Demonstrate the knowledge in accordance with National Fire Protection Association 921 Guide for Fire and Explosion Investigation and 1033 Professional Qualifications for Fire Investigators. Note: Current editions will be referenced.
- ★ Demonstrate knowledge of how to obtain recall, technical service bulletin information, consumer complaint information and general research information regarding vehicle fire investigation.
- ★ Attendees will learn the proper techniques for documenting, photographing, evidence collection and preservation including preparing a proper written report.
- ★ A download resource file will be available to the investigators for download including hybrids, the fire tests, and group vehicle examinations. The file is several gigabytes in content.

NFPA® 1033 Meeting the Job Performance Requirements

Instructor: Steve Riggs

Course Overview

This 2½ day training module will provide the fire/arson investigator with the practical and technical skills necessary to demonstrate compliance with the job performance requirements listed in NFPA® 1033 Standard Professional Qualifications for Fire Investigators.

This training module will provide both classroom and hands-on training with practical exercises on how to comply with the JPR's by actually being given the task, tools, and measurable outcomes to demonstrate the ability to successfully complete the JPR's. The documentation will be two-fold. You will have a completed check off sheet certifying you completed the JPR's, and photographic documentation of yourself completing each of the JPR's.

For the practical exercises, we will provide evidence collection containers, evidence tape, digital cameras, gloves, and all necessary investigation equipment to conduct a practical vehicle examination. This exercise may require some vehicle reconstruction. We recommend you bring a helmet or hard hat, coveralls, boots, or whatever you feel is appropriate.

Important for NAFI-CFEI and IAAI Certified Fire Investigators (IAAI-CFI®): At the end of this course, a post-test will be given for those who need CFI points or CFEI hours for certification or recertification. **“The Certified Fire and Explosion Investigator (C.F.E.I.) Examination,” (National Association of Fire Investigators), (C.F.E.I.) Examination and the Certified Vehicle Fire Investigator examinations will be offered to those who qualify.** Certifications will be granted to those whose applications are accepted and pass the examination. **Applications for membership and certification will be available at the class. Certification testing will be offered immediately following the first or second day of training.** Please go to www.nafi.org to download the CFEI application and complete it prior to class. **Bring the completed application to the class. DO NOT MAIL APPLICATION TO NAFI.**

Course Objectives

Attendees will have been provided the necessary skills and knowledge to show compliance with the job performance requirements as listed in NFPA® 1033:

- ★ NFPA® 1033 states, 1.1* Scope. This standard identifies the minimum job performance requirements (JPR's) for fire investigators.
- ★ 1.2* Purpose. The purpose of this standard shall be to specify the minimum job performance requirements for serving as a fire investigator in both the private and public sectors.
- ★ 1.2.2 Job performance requirements for each duty are the tasks an individual must be able to perform in order to successfully carry out that duty; however, they are not intended to measure a level of knowledge. Together, the duties and job performance requirements define the parameters of the job of a fire investigator.
- ★ 4.1.1* The fire investigator shall meet the job performance requirements defined in Sections 4.2 through 4.7

The question is, if or when you are asked, can you show the court, attorney, judge, or whomever is asking the question, do you meet the job performance requirements as listed in NFPA®1033. What will your answer be?

If your answer is yes, then you are asked, please provide us with that documentation. How will you provide the documentation to properly satisfy the court that you have met and can perform each JPR to their satisfaction?

This class will provide you with the check sheets and photographic evidence that each attendee was able to complete the JPR's as listed in the document.

NFPA® Educational Requirements

for 1033 and Hands-On Electrical Fire/Arson Investigation

Instructor: Steve Riggs

Course Overview

Fire investigators have been familiar with NFPA® 921 Guide for Fire and Explosion Investigators for many years. Today, as an investigator, the question must be asked, can I assure the court, opposing counsel, and my agency or company that I meet the requirements of NFPA® 1033, Professional Qualifications for Fire Investigator, especially in the area of the post-secondary education requirements.

During this two-day training module, the investigator will be provided with the necessary information to assure he/she meets the requirements of the NFPA® 1033 standard.

During this training module, attendees will receive necessary information to assure compliance for the pertinent requirements, the sixteen (16) post-secondary education requirements as listed in section 1.3.7, an overview of job performance requirements, and proper documentation of training methods to assure compliance when asked to provide documentation.

Course Objectives

Attendees will have been provided the necessary skills and knowledge to:

- ★ Demonstrate the ability to complete various tasks involving the job performance requirements.
- ★ The documentation to assure other interested parties, the attendee has met the post-secondary education requirements.
- ★ The attendees will be able to demonstrate their documentation pertaining to their received education and training. How to transfer training documentation into his/her CV to assure compliance with the standard.
- ★ Demonstrate how the investigators superiors evaluate, test, or check the investigators compliance with the standard, by those who are qualified and approved by the authority having jurisdiction.
- ★ Demonstrate compliance with the listed ASTM standards referenced in the standard.
- ★ Demonstrate a proper use of the systematic approach and the application of the scientific method.
- ★ A link to download resource information will be supplied to each attendee, including but not limited to, check sheets to ensure compliance with the standard.

Practical Fire/Arson Scene Search and Evidence Recovery

Instructor: Steve Riggs

Course Overview

The purpose of this course of training is to provide Fire Investigators, Law Enforcement Officers, Insurance Investigators, and D.A. Prosecutors with an in-depth course on Fire Scene Investigation and Evidence Collection Procedures. An extensive download resource password for additional resource information will be provided to each attendee.

Note: Important for IAAI Certified Fire Investigators (IAAI-CFI®): At the end of this course, a test will be given for those who need points/ hours for certification. The Certified Fire and Explosion Investigator (C.F.E.I.) Examination” (National Association of Fire Investigators). Certifications will be granted to those whose applications are accepted and pass the examination. **Applications for membership and certification will be available at the class.** Please go to www.nafi.org to download the CFEI application and have completed it prior to class. Bring the completed application to the class. **DO NOT MAIL APPLICATION TO NAFI.**

Course Objectives

The scene of any fire itself is evidence, and the testimony of a trained Fire Investigator, Law Enforcement Officer, D.A. Prosecutor, Insurance Investigator, or Private Investigator concerning observation and findings at an unchanged fire scene is vitally important to the successful clearance of the case. Improper protection of the fire scene will usually result in the contamination, loss, or unnecessary movement of physical evidence.

The First Law Enforcement Officer or Firefighter to arrive at the scene of the fire automatically incurs the serious and critical responsibility of securing the fire scene and must take precautions to protect its remains unchanged. Physical evidence in and about the fire scene is highly fragile in the sense that the elements, time, inadvertent movement, improper handling and packaging, and numerous other influences can reduce or destroy its evidentiary value. The Legal and Scientific Standards concerning the collection and processing of physical evidence are rigid. Thus, mistakes can easily be made in processing the crime scene, however, the more important fact is that mistakes can be easily avoided if sound procedures are followed.

The proper means of processing a fire scene, photographing, marking, tagging, and packaging evidence and transporting requires specialized training. However, this is of a nature that is within every investigator's ability to acquire. What is required in addition to procedural knowledge is an appreciation of what could potentially be evidence and what types of information the investigator might obtain from different physical material.

A competent search of a fire scene demands an understanding of basic procedures and appreciation of the “Why” of certain actions, and close attention to detail in carrying them out.

This training deals with the considerations, guidelines, and procedures that will help avoid an oversight, ensure thoroughness of the search, and to comply with both legal and scientific requirements that always bear on the use of physical evidence.

LLRMI Instructors

For more information about our instructors please visit
<https://www.llrmi.com/trainings/#instructors>



Bill Backus



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Glenn Bard



Steve Campbell



Jeff Carter



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Ken Hilte



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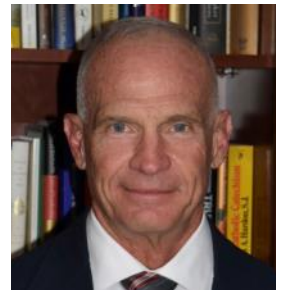
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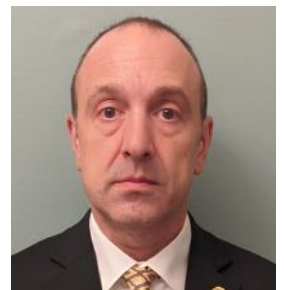
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Strategic Alliance **2024**

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