



JPRs related to

NFPA 1033

**Standard for Professional Qualifications for Fire Investigator
2014 Edition**



*GLOBAL LEADERS IN
FIRE INVESTIGATION®*

Following each JPR in this standard that is related to fire investigation, you will find a list of CFITrainer.Net® modules whose content supports that JPR.

1.3.7

(1) Fire Science

- An Analysis of The Station Nightclub Fire
- Fire Chemistry
- Fire Flow Analysis
- Postflashover Fires
- The Impact of Ventilation in Building Structures on Fire Development
- Thermometry, Heat, and Heat Transfer

(2) Fire Chemistry

- Fire Chemistry
- Fire Flow Analysis
- Postflashover Fires
- The Impact of Ventilation in Building Structures on Fire Development
- Thermometry, Heat, and Heat Transfer
- Understanding Fire Through the Candle Experiments

(3) Thermodynamics

- An Analysis of The Station Nightclub Fire
- Explosion Dynamics
- Fire Chemistry
- Fire Flow Analysis
- Postflashover Fires
- The Impact of Ventilation in Building Structures on Fire Development
- Thermometry, Heat, and Heat Transfer



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1.3.7

(4) Thermometry

- Thermometry, Heat, and Heat Transfer

(5) Fire Dynamics

- Fire Dynamics Calculations - Version 2.0
- Fire Flow Analysis
- Introduction to Fire Dynamics and Modeling
- Postflashover Fires
- The Impact of Ventilation in Building Structures on Fire Development
- Thermometry, Heat, and Heat Transfer

(6) Explosion Dynamics

- Explosion Dynamics

(7) Computer Fire Modeling

- An Analysis of The Station Nightclub Fire
- Charleston Sofa Super Store Fire
- Introduction to Fire Dynamics and Modeling

(8) Fire Investigation

- Accreditation, Certification, and Certificates
- An Analysis of The Station Nightclub Fire
- Arc Mapping Basics
- Ethics and the Fire Investigator
- Fire and Explosion Investigations: Utilizing NFPA 1033 and 921
- Fire Investigation for Company Officers
- Fire Investigator Scene Safety
- How First Responders Impact the Fire Investigation
- Introduction to Youth-Set Fires
- Investigating Fatal Fires



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(8) Fire Investigation (continued)

- Charting Your Career Path In Fire Investigation
- Investigating Fire and Explosion Incidents Involving a Line-of-Duty Death
- Investigating Motor Vehicle Fires
- Investigating Natural Gas Systems
- Legal Aspects of Investigating Youth-Set Fires
- MagneTek: A Case Study in the Daubert Challenge
- Managing Complex Fire Scene Investigations
- Motive, Means, and Opportunity: Determining Responsibility in an Arson Case
- NFPA 921 and 1033 2014 Editions: Important Revisions
- NFPA 1033 and Your Career
- Preparation for the Marine Fire Scene
- Process of Elimination
- Search and Seizure
- The Practical Application of the Relationship Between NFPA 1033 and NFPA 921
- The Scientific Method for Fire and Explosion Investigation
- Understanding the Fire Investigator's Job: A Guide for Non-Investigators
- Understanding "Undetermined"
- Using Resources to Validate Your Hypothesis
- What the Insurance Professional Needs to Know About Fire Investigation
- Wildland Fires Investigation

(9) Fire Analysis

- An Analysis of The Station Nightclub Fire
- Arc Mapping Basics
- Charleston Sofa Super Store Fire
- Critical Thinking Solves Cases



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2111 Baldwin Avenue, Suite 203, Crofton, MD 21114
Phone 410-451-FIRE(3473) - 800-468-4224 - FAX 410-451-9049 - SKYPE IAAI-Admin

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1.3.7

(9) Fire Analysis (continued)

- Fire Flow Analysis
- Motive, Means, and Opportunity: Determining Responsibility in an Arson Case
- Process of Elimination
- The Usual Suspects: A Closer Look At Common Accidental Causes
- Understanding “Undetermined”

(10) Fire Investigation Methodology

- DNA
- Documenting the Event
- Effective Investigation and Testimony
- Fire and Explosion Investigations: Utilizing NFPA 1033 and 921
- Fire Investigator Scene Safety
- Fire Protection Systems
- Fundamentals of Interviewing
- How First Responders Impact the Fire Investigation
- Introduction to Evidence
- Investigating Natural Gas Systems
- Managing Complex Fire Scene Investigations
- NFPA 921 and 1033 2014 Editions: Important Revisions
- Physical Evidence at the Fire Scene
- Process of Elimination
- Residential Electrical Systems
- Residential Natural Gas Systems
- Search and Seizure
- The Scientific Method for Fire and Explosion Investigation
- Vacant and Abandoned Buildings: Hazards and Solutions
- Writing the Initial Origin and Cause Report



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1.3.7

(11) Fire Investigation Technology

- Arc Mapping Basics
- Digital Photography and the Fire Investigator
- DNA
- Evidence Examination: What Happens at the Lab?
- The Potential Value of Electronic Evidence in Fire Investigations

(12) Hazardous Materials

- Physical Evidence at the Fire Scene
- The HAZWOPER Standard

(13) Failure Analysis and Analytical Tools

- Arc Mapping Basics
- Intro to Appliances
- Investigating Natural Gas Systems
- Residential Electrical Systems

(14) Fire Protection Systems

- Fire Protection Systems

(15) Evidence Documentation, Collection, and Preservation

- DNA
- Documenting the Event
- Evidence Examination: What Happens at the Lab?
- How First Responders Impact the Fire Investigation
- Intro to Appliances
- Introduction to Evidence
- Physical Evidence at the Fire Scene
- Search and Seizure
- The Potential Value of Electronic Evidence in Fire Investigations



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(16) Electricity and Electrical Systems

- Arc Mapping Basics
- Basic Electricity
- Electrical Safety
- Intro to Appliances
- Residential Electrical Systems
- The Usual Suspects: A Closer Look At Common Accidental Causes

1.3.8 Remaning Current on 1.3.7

- Accreditation, Certification, and Certificates
- Charting Your Career Path In Fire Investigation
- Fire Investigation for Company Officers
- NFPA 1033 and Your Career

4.1.1 Fire Investigator Shall Meet JPRs in 4.2 Through 4.7

- Accreditation, Certification, and Certificates
- Fire and Explosion Investigations: Utilizing NFPA 1033 and 921
- NFPA 921 and 1033 2014 Editions: Important Revisions
- NFPA 1033 and Your Career
- The Practical Application of the Relationship Between NFPA 1033 and NFPA 921

4.1.2 Employ Scientific Method

- The Scientific Method for Fire and Explosion Investigation

4.1.3 Complete Site Safety Assessment & Follow Standards

- Accreditation, Certification, and Certificates
- Electrical Safety
- Fire Investigator Scene Safety
- Investigating Natural Gas Systems
- Residential Electrical Systems
- Residential Natural Gas Systems



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4.1.4 Maintain Liaison With Other Interested Parties

- Discovery in Civil Cases
- Discovery in Criminal Cases
- Fire Investigation for Company Officers
- Insurance and the Fire Investigation
- Introduction to Youth-Set Fires
- Investigating Fatal Fires
- Investigating Fire and Explosion Incidents Involving a Line-of-Duty Death
- Investigating Natural Gas Systems
- Legal Aspects of Investigating Youth-Set Fires
- Managing Complex Fire Scene Investigations
- Preparation for the Marine Fire Scene
- Residential Natural Gas Systems
- Understanding the Fire Investigator's Job: A Guide for Non-Investigators
- What the Insurance Professional Needs to Know About Fire Investigation

4.1.5 Adhere to all Applicable Legal and Regulatory Requirements

- Accreditation, Certification, and Certificates
- Discovery in Civil Cases
- Discovery in Criminal Cases
- Ethics and the Fire Investigator
- Fire and Explosion Investigations: Utilizing NFPA 1033 and 921
- Insurance and the Fire Investigation
- MagneTek: A Case Study in the Daubert Challenge
- NFPA 921 and 1033 2014 Editions: Important Revisions
- NFPA 1033 and Your Career
- Search and Seizure
- The Deposition Part 1: Format, Content, and Preparation
- The Deposition Part 2: Questioning Tactics and Effective Responses
- The Practical Application of the Relationship Between NFPA 1033 and NFPA 921



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4.1.6 Understand the Organization and Operation of the Investigative Team Within an IMS

- Fire Investigator Scene Safety

4.2.1 Secure the Fire Ground

- Fire Investigator Scene Safety

4.2.2 Conduct an Exterior Survey

- Digital Photography and the Fire Investigator
- Documenting the Event
- Electrical Safety
- Explosion Dynamics
- Fire and Explosion Investigations: Utilizing NFPA 1033 and 921
- Fire Chemistry
- Fire Investigator Scene Safety
- Fire Protection Systems
- Fundamentals of Residential Building Construction
- Introduction to Fire Dynamics and Modeling
- Investigating Fatal Fires
- Investigating Motor Vehicle Fires
- Investigating Natural Gas Systems
- Motor Vehicles: The Engine and the Ignition, Electrical, and Fuel Systems
- Motor Vehicles: Transmission, Exhaust, Brake, and Accessory Systems
- NFPA 921 and 1033 2014 Editions: Important Revisions
- Physical Evidence at the Fire Scene
- Preparation for the Marine Fire Scene
- Residential Electrical Systems
- Residential Natural Gas Systems
- The Impact of Ventilation in Building Structures on Fire Development
- The Practical Application of the Relationship Between NFPA 1033 and NFPA 921
- The Scientific Method for Fire and Explosion Investigation



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4.2.2 Conduct an Exterior Survey (continued)

- Thermometry, Heat, and Heat Transfer
- Wildland Fires Investigation
- Fire Flow Analysis
- The Usual Suspects: A Closer Look at Common Accidental Causes

4.2.3 Conduct an Interior Survey

- Arc Mapping Basics
- Basic Electricity
- Digital Photography and the Fire Investigator
- Documenting the Event
- Electrical Safety
- Explosion Dynamics
- Fire and Explosion Investigations: Utilizing NFPA 1033 and 921
- Fire Chemistry
- Fire Flow Analysis
- Fire Investigator Scene Safety
- Fire Protection Systems
- Fundamentals of Residential Building Construction
- Introduction to Fire Dynamics and Modeling
- Investigating Fatal Fires
- Investigating Motor Vehicle Fires
- Investigating Natural Gas Systems
- Motor Vehicles: The Engine and the Ignition, Electrical, and Fuel Systems
- Motor Vehicles: Transmission, Exhaust, Brake, and Accessory Systems
- NFPA 921 and 1033 2014 Editions: Important Revisions
- Physical Evidence at the Fire Scene
- Postflashover Fires
- Preparation for the Marine Fire Scene
- Residential Electrical Systems



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4.2.3 Conduct an Interior Survey (continued)

- Residential Natural Gas Systems
- Search and Seizure
- The Impact of Ventilation in Building Structures on Fire Development
- The Potential Value of Electronic Evidence in Fire Investigations
- The Practical Application of the Relationship Between NFPA 1033 and NFPA 921
- The Scientific Method for Fire and Explosion Investigation
- The Usual Suspects: A Closer Look At Common Accidental Causes
- Thermometry, Heat, and Heat Transfer

4.2.4 Interpret Fire Patterns Individually

- An Analysis of The Station Nightclub Fire
- Charleston Sofa Super Store Fire
- Explosion Dynamics
- Fire Chemistry
- Fire Flow Analysis
- Fundamentals of Residential Building Construction
- Intro to Appliances
- Introduction to Fire Dynamics and Modeling
- Investigating Motor Vehicle Fires
- Investigating Natural Gas Systems
- NFPA 921 and 1033 2014 Editions: Important Revisions
- Physical Evidence at the Fire Scene
- Postflashover Fires
- Process of Elimination
- The Impact of Ventilation in Building Structures on Fire Development
- The Usual Suspects: A Closer Look At Common Accidental Causes
- The Scientific Method for Fire and Explosion Investigation



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4.2.4 Interpret Fire Patterns Individually (continued)

- Thermometry, Heat, and Heat Transfer
- Understanding Fire Through the Candle Experiments
- Using Resources to Validate Your Hypothesis
- Wildland Fires Investigation

4.2.5 Interpret and Analyze Fire Patterns Collectively

- An Analysis of The Station Nightclub Fire
- Charleston Sofa Super Store Fire
- Explosion Dynamics
- Fire Chemistry
- Fundamentals of Residential Building Construction
- Intro to Appliances
- Introduction to Fire Dynamics and Modeling
- Investigating Motor Vehicle Fires
- Investigating Natural Gas Systems
- NFPA 921 and 1033 2014 Editions: Important Revisions
- Physical Evidence at the Fire Scene
- Postflashover Fires
- Process of Elimination
- The Impact of Ventilation in Building Structures on Fire Development
- The Scientific Method for Fire and Explosion Investigation
- Thermometry, Heat, and Heat Transfer
- Understanding Fire Through the Candle Experiments
- Using Resources to Validate Your Hypothesis
- Wildland Fires Investigation



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4.2.6 Examine and Remove Fire Debris

- Arc Mapping Basics
- Evidence Examination: What Happens at the Lab?
- Intro to Appliances
- Introduction to Evidence
- Physical Evidence at the Fire Scene
- Postflashover Fires
- Process of Elimination
- The Impact of Ventilation in Building Structures on Fire Development
- The Potential Value of Electronic Evidence in Fire Investigations
- The Usual Suspects: A Closer Look At Common Accidental Causes
- Understanding “Undetermined”
- Wildland Fires Investigation

4.2.7 Reconstruct the Area of Origin

- Documenting the Event
- Explosion Dynamics
- Fire Chemistry
- Fire Flow Analysis
- Fundamentals of Residential Building Construction
- Intro to Appliances
- Physical Evidence at the Fire Scene
- Postflashover Fires
- The Impact of Ventilation in Building Structures on Fire Development
- The Usual Suspects: A Closer Look At Common Accidental Causes
- Thermometry, Heat, and Heat Transfer
- Using Resources to Validate Your Hypothesis



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4.2.8 Inspect the Performance of Building Systems

- Arc Mapping Basics
- Basic Electricity
- Fire Protection Systems
- Fundamentals of Residential Building Construction
- Intro to Appliances
- Investigating Natural Gas Systems
- Residential Electrical Systems
- Residential Natural Gas Systems
- Using Resources to Validate Your Hypothesis
- Vacant and Abandoned Buildings: Hazards and Solutions

4.2.9 Discriminate the Effects of Explosions

- Explosion Dynamics
- Investigating Natural Gas Systems

4.3.1 Diagram the Scene

- Discovery in Civil Cases
- Discovery in Criminal Cases
- Documenting the Event

4.3.2 Photographically Document the Scene

- Digital Photography and the Fire Investigator
- Discovery in Civil Cases
- Discovery in Criminal Cases
- Documenting the Event



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4.3.3 Construct Investigative Notes

- Discovery in Civil Cases
- Discovery in Criminal Cases
- Documenting the Event
- The Deposition Part 1: Format, Content, and Preparation
- The Deposition Part 2: Questioning Tactics and Effective Responses
- Writing the Initial Origin and Cause Report

4.4.1 Utilize Proper Procedures for Managing Victims and Fatalities

- Evidence Examination: What Happens at the Lab?
- Introduction to Evidence
- Investigating Fatal Fires
- Investigating Fire and Explosion Incidents Involving a Line-of-Duty Death
- Physical Evidence at the Fire Scene

4.4.2 Locate, Document, Collect, Label, Package, and Store Evidence

- Digital Photography and the Fire Investigator
- Discovery in Civil Cases
- Discovery in Criminal Cases
- DNA
- Documenting the Event
- Evidence Examination: What Happens at the Lab?
- Introduction to Evidence
- Investigating Fatal Fires
- Investigating Fire and Explosion Incidents Involving a Line-of-Duty Death
- Physical Evidence at the Fire Scene
- Search and Seizure
- The Potential Value of Electronic Evidence in Fire Investigations



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4.4.3 Select Evidence for Analysis

- Discovery in Civil Cases
- Discovery in Criminal Cases
- DNA
- Documenting the Event
- Evidence Examination: What Happens at the Lab?
- Introduction to Evidence
- Investigating Fatal Fires
- Investigating Fire and Explosion Incidents Involving a Line-of-Duty Death
- Physical Evidence at the Fire Scene
- Process of Elimination
- Search and Seizure
- The Potential Value of Electronic Evidence in Fire Investigations

4.4.4 Maintain a Chain of Custody

- Discovery in Civil Cases
- Discovery in Criminal Cases
- DNA
- Documenting the Event
- Evidence Examination: What Happens at the Lab?
- Introduction to Evidence
- Investigating Fatal Fires
- Investigating Fire and Explosion Incidents Involving a Line-of-Duty Death
- Physical Evidence at the Fire Scene
- Search and Seizure
- The Potential Value of Electronic Evidence in Fire Investigations



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4.4.5 Dispose of Evidence

- Discovery in Civil Cases
- Discovery in Criminal Cases
- DNA
- Documenting the Event
- Evidence Examination: What Happens at the Lab?
- Introduction to Evidence
- Investigating Fatal Fires
- Investigating Fire and Explosion Incidents Involving a Line-of-Duty Death
- Physical Evidence at the Fire Scene
- Search and Seizure
- The Potential Value of Electronic Evidence in Fire Investigations

4.5.1 Develop an Interview Plan

- Discovery in Civil Cases
- Discovery in Criminal Cases
- Fundamentals of Interviewing
- Insurance and the Fire Investigation
- Introduction to Youth-Set Fires
- Legal Aspects of Investigating Youth-Set Fires
- Motive, Means, and Opportunity: Determining Responsibility in an Arson Case

4.5.2 Conduct Interviews

- Discovery in Civil Cases
- Discovery in Criminal Cases
- Fundamentals of Interviewing
- Insurance and the Fire Investigation
- Introduction to Youth-Set Fires
- Legal Aspects of Investigating Youth-Set Fires
- Motive, Means, and Opportunity: Determining Responsibility in an Arson Case



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4.5.3 Evaluate Interview Information, Analyze, Correlate, and Corroborate

- Critical Thinking Solves Cases
- Fundamentals of Interviewing
- Insurance and the Fire Investigation
- Introduction to Youth-Set Fires
- Legal Aspects of Investigating Youth-Set Fires
- Motive, Means, and Opportunity: Determining Responsibility in an Arson Case
- Process of Elimination

4.6.1 Gather Reports and Records, Maintain Admissibility in Court

- Discovery in Civil Cases
- Discovery in Criminal Cases
- Effective Investigation and Testimony
- Evidence Examination: What Happens at the Lab?
- Insurance and the Fire Investigation
- Introduction to Youth-Set Fires
- Legal Aspects of Investigating Youth-Set Fires
- Motive, Means, and Opportunity: Determining Responsibility in an Arson Case
- Physical Evidence at the Fire Scene
- Search and Seizure
- The Deposition Part 1: Format, Content, and Preparation
- The Deposition Part 2: Questioning Tactics and Effective Responses
- The Potential Value of Electronic Evidence in Fire Investigations
- The Scientific Method for Fire and Explosion Investigation



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4.6.2 Evaluate the Investigative File

- Discovery in Civil Cases
- Discovery in Criminal Cases
- Effective Investigation and Testimony
- Insurance and the Fire Investigation
- Writing the Initial Origin and Cause Report

4.6.3 Coordinate Expert Resources

- Discovery in Civil Cases
- Discovery in Criminal Cases
- Insurance and the Fire Investigation
- Intro to Appliances
- Introduction to Fire Dynamics and Modeling
- Investigating Fatal Fires
- Investigating Motor Vehicle Fires
- Investigating Natural Gas Systems
- MagneTek: A Case Study in the Daubert Challenge
- Managing Complex Fire Investigations
- Residential Electrical Systems
- Residential Natural Gas Systems
- Understanding the Fire Investigator's Job: A Guide for Non-Investigators
- Using Resources to Validate Your Hypothesis
- What the Insurance Professional Needs to Know About Fire Investigation
- Writing the Initial Origin and Cause Report

4.6.4 Establish Evidence as to Motive and/or Opportunity, Given an Incendiary Fire

- Motive, Means, and Opportunity: Determining Responsibility in an Arson Case
- Writing the Initial Origin and Cause Report



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4.7.1 Prepare a Written Report

- Discovery in Civil Cases
- Discovery in Criminal Cases
- Writing the Initial Origin and Cause Report
- Understanding “Undetermined”

4.7.2 Express Investigative Findings Verbally

- Critical Thinking Solves Cases
- Discovery in Civil Cases
- Discovery in Criminal Cases
- Effective Investigation and Testimony
- MagneTek: A Case Study in the Daubert Challenge
- The Deposition Part 1: Format, Content, and Preparation
- The Deposition Part 2: Questioning Tactics and Effective Responses
- Writing the Initial Origin and Cause Report

4.7.3 Testify During Legal Proceedings

- Discovery in Civil Cases
- Discovery in Criminal Cases
- Effective Investigation and Testimony
- MagneTek: A Case Study in the Daubert Challenge
- The Deposition Part 1: Format, Content, and Preparation
- The Deposition Part 2: Questioning Tactics and Effective Responses
- Writing the Initial Origin and Cause Report

