



JPRs related to

NFPA 1021

**Standard for Fire Officer Professional Qualifications
2020 Edition**

Fire Officer I



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.

4.1.1 General Prerequisite Knowledge - (Includes Ethics)

- Alternative Fuel Vehicles
- Accreditation, Certification, and Certificates
- Basic Electricity
- Electric & Hybrid Vehicle Design Basics
- Electrical Safety
- Ethical Duties Beyond the Fire Scene
- Ethics & Social Media
- Ethics and the Fire Investigator
- 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
- How First Responders Impact the Fire Investigation
- Introduction to Fire Dynamics and Modeling
- Introduction to Youth-Set Fires
- Investigating Fire and Explosion Incidents Involving a Line-of-Duty Death
- Lithium-Ion Battery Fires
- Motor Vehicles: The Engine and the Ignition, Electrical, and Fuel Systems
- Motor Vehicles: Transmission, Exhaust, Brake, and Accessory Systems
- Photovoltaic Cells & Systems
- Physical Evidence at the Fire Scene
- Postflashover Fires
- Preparation for the Marine Fire Scene
- Preventing Occupational Exposures to Carcinogens at the Fire Scene
- Residential Electrical Systems



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4.1.1 General Prerequisite Knowledge - (Includes Ethics) (cont.)

- Residential Natural Gas Systems
- Search and Seizure
- The HAZWOPER Standard
- The Impact of Ventilation in Building Structures on Fire Development
- Understanding Fire Through the Candle Experiments
- Understanding the Fire Investigator's Job: A Guide for Non-Investigators
- Vacant and Abandoned Buildings: Hazards and Solutions

4.3.1 Implement a Community Risk Reduction (CRR) Plan

- Fire Investigation for Fire Officers
- Introduction to Youth-Set Fires
- Understanding the Fire Investigator's Job: A Guide for Non-Investigators
- Vacant and Abandoned Buildings: Hazards and Solutions

4.4.4 Explain the Purpose of Each Management Component

- Understanding the Fire Investigator's Job: A Guide for Non-Investigators

4.4.5 Explain the Needs and Benefits of Collecting Incident Response Data

- Fire Investigation for Fire Officers
- Writing the Initial Origin and Cause Report

4.5 Inspection and Investigation

- Alternative Fuel Vehicles
- Critical Evaluation and Testing of Commonly Reported Accidental Causes
- Documenting the Event
- Electric & Hybrid Vehicle Design Basics
- Electric & Hybrid Vehicle Fires
- Electrical Safety
- Emerging Technologies in Fire Investigation



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4.5 Inspection and Investigation (cont.)

- Ethics and the Fire Investigator
- Fire and Explosion Investigations: Utilizing NFPA 1033 and 921
- Fire Flow Analysis
- Fire Investigation for Fire Officers
- Fire Investigator Scene Safety
- Fundamentals of Interviewing
- How First Responders Impact the Fire Investigation
- Intro to Appliances
- Introduction to Evidence
- Investigating Motor Vehicle Fires
- Investigating Natural Gas Systems
- Lithium-Ion Battery Fires
- Photovoltaic Cells & Systems
- Physical Evidence at the Fire Scene
- Postflashover Fires
- Preventing Occupational Exposures to Carcinogens at the Fire Scene
- 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 “Undetermined”
- Using Resources to Validate Your Hypothesis
- Wildland Fires Investigation
- Writing the Initial Origin and Cause Report

4.5.2 Identify Construction, Alarm, Detection, and Suppression Features

- Alternative Fuel Vehicles



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4.5.2 Identify Construction, Alarm, Detection, and Suppression Features (cont.)

- Electric & Hybrid Vehicle Fires
- Fire Flow Analysis
- Fire Protection Systems
- Fundamentals of Residential Building Construction
- Photovoltaic Cells & Systems
- Residential Electrical Systems
- Residential Natural Gas Systems
- The Impact of Ventilation in Building Structures on Fire Development

4.5.3 Secure Incident Scene

- Alternative Fuel Vehicles
- Documenting the Event
- Electric & Hybrid Vehicle Fires
- Fire Investigator Scene Safety
- Photovoltaic Cells & Systems

4.6.2 Implement an Action Plan at an Emergency Operation

- Alternative Fuel Vehicles
- Electric & Hybrid Vehicle Fires
- Photovoltaic Cells & Systems
- Preventing Occupational Exposures to Carcinogens at the Fire Scene
- Understanding the Fire Investigator's Job: A Guide for Non-Investigators

4.7.1 Apply Safety Regulations

- Preventing Occupational Exposures to Carcinogens at the Fire Scene

4.7.2 Conduct an Initial Accident Investigation

- Alternative Fuel Vehicles
- Arc Mapping Basics



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4.7.2 Conduct an Initial Accident Investigation (cont.)

- Basic Electricity
- Critical Evaluation and Testing of Commonly Reported Accidental Causes
- Documenting the Event
- Electric & Hybrid Vehicle Design Basics
- Electric & Hybrid Vehicle Fires
- Emerging Technologies in Fire Investigation
- Explosion Dynamics
- Intro to Appliances
- Introduction to Evidence
- Introduction to Youth-Set Fires
- Investigating Fatal Fires
- Investigating Motor Vehicle Fires
- Investigating Natural Gas Systems
- Legal Aspects of Investigating Youth-Set Fires
- Lithium-Ion Battery Fires
- Photovoltaic Cells & Systems
- Process of Elimination
- Residential Electrical Systems
- Residential Natural Gas Systems
- The Scientific Method for Fire and Explosion Investigation
- Understanding “Undetermined”
- Vacant and Abandoned Buildings: Hazards and Solutions
- Wildland Fires Investigation





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NFPA 1021

**Standard for Fire Officer Professional Qualifications
2020 Edition**

Fire Officer II



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5.3.2 Explain Benefits of Cooperating With Other Agencies

- Alternative Fuel Vehicles
- Electric & Hybrid Vehicle Fires
- Fire Investigation for Fire Officers
- Photovoltaic Cells & Systems
- Using Resources to Validate Your Hypothesis

5.5.1 Determine the Area of Origin and Preliminary Cause of a Fire

- Accreditation, Certification, and Certificates
- Alternative Fuel Vehicles
- Arc Mapping Basics
- Basic Electricity
- Critical Evaluation and Testing of Commonly Reported Accidental Causes
- Digital Photography and the Fire Investigator
- Discovery in Civil Cases
- Discovery in Criminal Cases
- Documenting the Event
- Electric & Hybrid Vehicle Design Basics
- Electric & Hybrid Vehicle Fires
- Electrical Safety
- Evidence Examination: What Happens at the Lab?
- Explosion Dynamics
- Fire and Explosion Investigations: Utilizing NFPA 1033 and 921
- Fire Chemistry
- Fire Flow Analysis
- Fire Investigation for Fire Officers
- Fire Investigator Scene Safety
- Fire Protection Systems



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5.5.1 Determine the Area of Origin and Preliminary Cause of a Fire (cont.)

- Fundamentals of Interviewing
- Fundamentals of Residential Building Construction
- Insurance and the Fire Investigation
- Intro to Appliances
- Introduction to Evidence
- Introduction to Fire Dynamics and Modeling
- Introduction to Youth-Set Fires
- Investigating Fatal Fires
- 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
- Lithium-Ion Battery Fires
- 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
- NFPA 1033 and Your Career
- Photovoltaic Cells & Systems
- Physical Evidence at the Fire Scene
- Postflashover Fires
- Preparation for the Marine Fire Scene
- Process of Elimination
- Residential Electrical Systems
- 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



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5.5.1 Determine the Area of Origin and Preliminary Cause of a Fire (cont.)

- The Practical Application of the Relationship Between NFPA 1033 and NFPA 921
- The Scientific Method for Fire and Explosion Investigation
- Thermometry, Heat, and Heat Transfer
- Understanding Fire Through the Candle Experiments
- Understanding “Undetermined”
- Using Resources to Validate Your Hypothesis
- Wildland Fires Investigation

