

**FIRE INVESTIGATOR
STUDY GUIDE**

A written examination for the class of **FIRE INVESTIGATOR** to be administered in **MONROE** on **APRIL 5, 2016** will consist of approximately **100** multiple-choice questions. The examination will test your knowledge in the following subject areas:

SUBJECT AREA/KNOWLEDGE	APPROXIMATE % OF EXAM
FIRE HAZARDS Knowledge of the factors which constitute ordinary or special fire hazards, including materials, conditions, or negligence which may contribute to the start of a fire, or increase the extent or severity of a fire, or increase the extent or severity of a fire incident.	9.0%
FIRE INVESTIGATION Knowledge of the procedures for conducting a fire investigation and for determining the cause of a fire, including deciding what may be considered unusual at a fire scene; char and burn patterns; factors affecting fire spread; determination of the point of origin and probable cause of a fire; reconstruction of a fire scene; estimation of loss or damage caused by the fire; interview and interrogation procedures; law enforcement procedures related to fire investigations; and collection of evidence, including fire scene photography.	24.0%
FIRE CHEMISTRY Knowledge of the chemistry of fire, including ignition temperatures and properties of flammable and combustible materials, flame and smoke spread, and products of combustion.	8.0%
BUILDING CONSTRUCTION Knowledge of building construction to identify any possible fire hazards, including building construction components installed for fire related purposes.	6.0%

SUBJECT AREA/KNOWLEDGE	APPROXIMATE % OF EXAM
<p>FIRE RECORDS, REPORTS, & CORRESPONDENCE</p> <p>Knowledge of effective records-keeping practices, including preparation, content, control, format, and of the information gathering process and procedures for completing required reports or producing required correspondence in order to document the performance of fire investigation duties.</p>	9.0%
<p>FIRE PROTECTION AND WATER SUPPLY SYSTEMS</p> <p>Knowledge of sprinklers and standpipe systems, water supply systems, including evaluation of the operational readiness of the systems, and location of system components and devices.</p>	5.0%
<p>PUBLIC FIRE EDUCATION</p> <p>Knowledge of the principles of public fire education needed to inform the public about fire safety during the performance of fire investigation duties.</p>	9.0%
<p>PUBLIC RELATIONS</p> <p>Knowledge of accepted public relations practices in order to interact with other agencies, and with the public in various situations including public safety, and fire investigation activities.</p>	9.0%
<p>FIRE SERVICE MANAGEMENT</p> <p>Knowledge of the principles of fire service management, including performing duties requiring interpretation of laws and policy to handle fire investigation problems; and managing departmental equipment and supplies.</p>	9.0%
<p>FIRE SUPPRESSION</p> <p>Knowledge of fire suppression procedures sufficient to perform emergency scene operations in the following areas: size-up; protection fo exposures, use of water supplies, salvage, overhaul, overseeing safety procedures, handling hazardous materials, and maintaining fireground communications.</p>	12.0%

REFERENCE LIST

While the entire list of reference material will be useful to you in your preparation for the upcoming examination, the **majority** of test questions are sourced from those references listed under the Primary List.

PRIMARY REFERENCE MATERIAL

KIRK'S FIRE INVESTIGATION, Brady, A Prentice-Hall Division, Englewood Cliffs, New Jersey, 07632, 5th ed., 2002.

INTERNATIONAL FIRE SERVICE TRAINING ASSOCIATION (IFSTA)/ FIRE PROTECTION PUBLICATIONS (Training Manuals):

Essentials of Firefighting and Fire Department Operations, 5th ed., 2008.
Introduction to Fire Origin and Cause, 3rd ed., 2005.
Fire Inspection and Code Enforcement, 6th ed., 1998.
Fire and Life Safety Educator, 2nd ed., 1997.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PUBLICATIONS AND STANDARDS:

FIRE PROTECTION HANDBOOK, NFPA, 19th ed., 2003.

BUILDING CONSTRUCTION FOR THE FIRE SERVICE, NFPA, Brannigan, Francis L., 4th ed., 2008.

EFFECTIVE SUPERVISORY PRACTICES, International City Management Association (ICMA), 1120 G Street, N.W., Washington, D.C. 20005, 4th ed., 2005.

NOTE: Obtain through LSU Firemen Training Program or IFSTA Fire Protection Publications.

The local civil service board should make this study guide available to all applicants in whatever manner the board deems appropriate.

While there are no provisions requiring this office to provide study guides for any competitive or promotional examinations, such material will be provided as a service to assist applicants in preparing for an examination. The State Examiner's office has no control whatsoever over the local availability of reference material (mentioned in the study guides), nor do we feel constrained to limit examination questions to only that material which is available locally. Examination content, weighting of subject areas, and length of examination, may vary with each administration of an examination to reflect any updated job analysis information. Percentages and numerical estimations are provided as approximations.