

# Study Guide For Nfpa 1002

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Loose-Leaf Version  
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## 2018 International Mechanical Code

## **Turbo Tabs, Loose-Leaf Version**

The National Fire Protection Association (NFPA) and the International Association of Fire Chiefs (IAFC) are pleased to bring you the Second Edition of Fire Officer: Principles and Practice, a modern integrated teaching and learning system for the Fire Officer I and II levels. Fire officers need to know how to make the transition from fire fighter to leader. Fire Officer: Principles and Practice, Second Edition is designed to help fire fighters make a smooth transition to fire officer. Covering the entire scope of NFPA 1021, Standard for Fire Officer Professional Qualifications, 2009 Edition, Fire Officer combines current content with dynamic features and interactive technology to better support instructors and help prepare future fire officers for any situation that may arise. Safety is Principle! The Second Edition features a laser-like focus on fire fighter safety. Reducing fire fighter injuries and deaths requires the dedicated efforts of every fire fighter, fire officer, fire department, and the entire fire community working together. It is with this goal in mind that we have integrated the 16 Firefighter Life Safety Initiatives developed by the National Fallen Firefighters Foundation into the text. Likewise, in each of the chapters, actual National Fire Fighter Near-Miss Reporting System cases are discussed to drive home safety and the lessons learned from those incidents. Some of the guiding principles added to the new edition include: Description of the "Everybody Goes Home" and the National Fire Fighter Near-Miss Reporting System, including over a dozen company officer near-miss

examples throughout the text. Description of the IAFC/IAFF Firefighter Safety and Deployment Study. The latest fire fighter death and injury issues as reported by the NFPAreg; National Fallen Firefighters Foundation, IAFC, and IAFF, including results of a thirty-year retrospective study. Changes in fire-ground accountability and rapid intervention practices. Results of National Institute of Standards and Technology research on wind-driven fires, thermal imaging cameras, and fire dynamics as related to fire fighter survival. The latest developments in crew resource management. The Second Edition also reflects the latest developments in: Building a personal development plan through education, training, self-development, and experience, including a description of the Fire and Emergency Services Higher Education (FESHE) program. The impact of blogs, video sharing, and social networks. How to budget for a grant. Changes in the National Response Framework and National Incident Management System. Additional items related to fire fighter safety and health are included. [Click here to view a sample chapter from Fire Officer: Principles and Practice, Second Edition.](#)

## **Physical and Biological Hazards of the Workplace**

## **2015 International Fire Code Commentary**

This outstanding text presents complete coverage of

truck company operational procedures. Truck Company Fireground Operations describes procedures for working structural fires, and helps you train responders on rescue, ventilation, forcible entry, salvage, and more!

### **Firefighter Fatality Retrospective Study**

With a pedigree going back over ten years, The Definitive Handbook of Business Continuity Management can rightly claim to be a classic guide to business risk management and contingency planning, with a style that makes it accessible to all business managers. Some of the original underlying principles remain the same – but much has changed. This is reflected in this radically updated third edition, with exciting and helpful new content from new and innovative contributors and new case studies bringing the book right up to the minute. This book combines over 500 years of experience from leading Business Continuity experts of many countries. It is presented in an easy-to-follow format, explaining in detail the core BC activities incorporated in BS 25999, Business Continuity Guidelines, BS 25777 IT Disaster Recovery and other standards and in the body of knowledge common to the key business continuity institutes. Contributors from America, Asia Pacific, Europe, China, India and the Middle East provide a truly global perspective, bringing their own insights and approaches to the subject, sharing best practice from the four corners of the world. We explore and summarize the latest legislation, guidelines and standards impacting BC planning and

management and explain their impact. The structured format, with many revealing case studies, examples and checklists, provides a clear roadmap, simplifying and de-mystifying business continuity processes for those new to its disciplines and providing a benchmark of current best practice for those more experienced practitioners. This book makes a massive contribution to the knowledge base of BC and risk management. It is essential reading for all business continuity, risk managers and auditors: none should be without it.

### **Fire Department Apparatus Driver Operator**

This second edition of Fire Service Pump Operator has been thoroughly updated to serve as a complete training solution that addresses pump operation, safe driving techniques, tiller and aerial apparatus operation, and water supply considerations. From basic apparatus maintenance to fire pump theory and advanced hydraulic calculations, this single manual covers everything a fire service driver/operator needs to know. Fire Service Pump Operator: Pump, Aerial, Tiller, and Mobile Water Supply, Second Edition meets and exceeds the job performance requirements of Chapters 4, 5, and 10 of NFPA 1002, Fire Apparatus Driver/Operator Professional Qualifications, 2014 Edition. It also addresses all of the course outcomes from the National Fire Academy's Fire and Emergency Services Higher Education (FESHE) Associates (Core) Fire Protection Hydraulics and Water Supply course.

### **Aircraft Rescue and Fire Fighting**

## **Fire Service Instructor: Principles and Practice**

FSTA NEW Editions Streamline Driver/Operator Training The new editions of these bestselling IFSTA fire apparatus driver/operator training materials mark a new approach to training driver/operators. Previously, IFSTA published two separate manuals with student and instructor support materials: Pumping Apparatus Driver/Operator Handbook and Aerial Apparatus Driver/Operator Handbook. Fire departments with both types of apparatus needed two manuals, two curriculum and driver/operator trainees needed two exam preps to study for tests. The release of the 3rd edition of these manuals streamlines the IFSTA training resources. The Pumping Apparatus Driver/Operator Handbook, 3rd Edition covers pumping apparatus only, the second book in the pair, Pumping and Aerial Apparatus Driver/Operator Handbook, 3rd Edition contains the same 15 chapters as the pumping apparatus textbook, plus an additional 5 chapters relevant to aerial apparatus. Personnel on departments that operate both types of apparatus now only need one manual and one curriculum for training. Students only need one exam prep to prepare for testing. If a fire department does not use aerial apparatus, they use the Pumping Apparatus Driver/Operator Handbook, 3rd Edition and omit the aerial sections of the curriculum and exam prep which include all 20 chapters. Chapters 2 and 3 are especially beneficial for all driver/operators: Inspection and Maintenance

and Safety and Operating Emergency Vehicles. Pumping Apparatus Driver/Operator Handbook, 3rd edition Skill Sheets now included in the manual Key Terms added The new Fire Apparatus Manufacturer's Association (FAMA) standardized safety signs for fire apparatus are highlighted Hydraulic calculations presented in a logical sequence making teaching and learning easier Customary and metric calculations in one chapter NEW case histories introduce each chapter NFPA® 1002 JPR Correlation Matrix Arabic edition of Pumping Apparatus Driver/ Operator Handbook, 3rd Edition now available. Visit <http://www.afssac.edu.sa/arhome/arabic.pado> for ordering instructions.

### **Evaluation of Fire Safety**

This book provides guidance on including prevention through design concepts within an occupational safety and health management system. Through the application of these concepts, decisions pertaining to occupational hazards and risks can be incorporated into the process of design and redesign of work premises, tools, equipment, machinery, substances, and work processes including their construction, manufacture, use, maintenance, and ultimate disposal or reuse. These techniques provide guidance for a life-cycle assessment and design model that balances environmental and occupational safety and health goals over the life span of a facility, process, or product. The new edition is expanded to include primer information on the use of safety assurance techniques in design and construction.

## **Illustrated Guide to Door Hardware: Design, Specification, Selection**

Structural Design for Fire Safety, 2nd edition Andrew H. Buchanan, University of Canterbury, New Zealand  
Anthony K. Abu, University of Canterbury, New Zealand  
A practical and informative guide to structural fire engineering This book presents a comprehensive overview of structural fire engineering. An update on the first edition, the book describes new developments in the past ten years, including advanced calculation methods and computer programs. Further additions include: calculation methods for membrane action in floor slabs exposed to fires; a chapter on composite steel-concrete construction; and case studies of structural collapses. The book begins with an introduction to fire safety in buildings, from fire growth and development to the devastating effects of severe fires on large building structures. Methods of calculating fire severity and fire resistance are then described in detail, together with both simple and advanced methods for assessing and designing for structural fire safety in buildings constructed from structural steel, reinforced concrete, or structural timber. Structural Design for Fire Safety, 2nd edition bridges the information gap between fire safety engineers, structural engineers and building officials, and it will be useful for many others including architects, code writers, building designers, and firefighters. Key features:

- Updated references to current research, as well as new end-of-chapter questions and worked examples.
- Authors experienced in teaching,

researching, and applying structural fire engineering in real buildings. • A focus on basic principles rather than specific building code requirements, for an international audience. An essential guide for structural engineers who wish to improve their understanding of buildings exposed to severe fires and an ideal textbook for introductory or advanced courses in structural fire engineering.

### **Truck Company Fireground Operations**

Customize your 2018 INTERNATIONAL MECHANICAL CODE Loose leaf book with updated, easy-to-use TURBO TABS. These handy tabs will highlight the most frequently referenced sections of the latest version of the IMC. They have been strategically designed by industry experts so that users can quickly and efficiently access the information they need, when they need it.

### **Basic Guide to System Safety**

Up-to-date analysis methodologies and practical mitigation for a major electrical safety concern Arc Flash Hazard Analysis and Mitigation is the first book to focus specifically on arc flash hazards and provide the latest methodologies for its analysis as well as practical mitigation techniques. Consisting of sixteen chapters, this fully up-to-date handbook covers all aspects of arc flash hazard calculations and mitigation. It addresses the calculations of short circuits, protective relaying, and varied electrical systems configurations in electrical power systems. It

also examines protection systems, including differential relays, arc flash sensing relays, protective relaying coordination, current transformer operation and saturation, and applications to major electrical equipment from the arc flash point of view. Current technologies and strategies for arc flash mitigation are explored. Using the methodology, analysis, and preventive measures discussed in the book, the arc flash hazard incident energy can be reduced to 8 cal/cm<sup>2</sup> or less for the new and existing electrical distribution systems. This powerful resource: Features the most up-to-date arc flash analysis methodologies Presents arc flash hazard calculations in dc systems Supplies practical examples and case studies Provides end-of-chapter reviews and questions Includes a Foreword written by Lanny Floyd, a world-renowned leader in electrical safety who is DuPont's Principal Consultant on Electrical Safety and Technology Arc Flash Hazard Analysis and Mitigation is a must-have guide for electrical engineers engaged in design, operation, and maintenance, consulting engineers, facility managers, and safety professionals.

### **Fire Officer**

### **Structural Design for Fire Safety**

The fourth edition of Fire Officer: Principles and Practice was significantly updated and reorganized to better serve the Fire Officer I and Fire Officer II. The content meets and exceeds the job performance

requirements for Fire Officer I and II in the 2020 Edition of NFPA 1021, Standard for Fire Officer Professional Qualifications. The new edition places emphasis on the understanding and application of leadership and management theories and traits, challenges, and how we use leadership to reach objectives. The basic principles and methods of Community Risk Reduction are also discussed. In addition, the program now has two distinct sections: Section One includes 8 chapters, which set the foundation for Fire Officer I knowledge and understanding. Section Two comprises six chapters, which encompass the higher level competencies required for Fire Officer II. This new organization will allow you the flexibility to teach your Fire Officer I and II course(s) exactly the way you wish.

### **International Building Code 2000**

This analysis sought to identify trends in mortality and examine relationships among data elements. To this end, data were collected on firefighter fatalities between 1990 and 2000. (For further information, see the "Methodology" section or the Appendix.) Using this analysis, better targeted prevention strategies can be developed in keeping with the USFA's goal to reduce firefighter deaths 25 percent by 2005. In contrast to the annual USFA firefighter fatality reports, this analysis allowed for comparisons over time to determine any changes in firefighter mortality, with a depth of scrutiny not present in earlier analyses.

## **Fire Apparatus Driver/Operator**

The premier edition of the International Building Code addresses design and installation of building systems with requirements that emphasize performance. The IBC is coordinated with all 11 editions of the International Codes.

## **Fire Engineering's Handbook for Firefighter I and II**

The Second Edition of Exam Prep: Fire Department Apparatus Driver/Operator is designed to thoroughly prepare you for a Driver/Operator certification, promotion, or training examination by including the same type of multiple-choice questions you are likely to encounter on the actual exam. To help improve examination scores, this preparation guide follows Performance Training Systems, Inc.'s Systematic Approach to Examination Preparation. Exam Prep: Fire Apparatus Driver Operator, Second Edition is written by fire personnel explicitly for fire personnel, and all content has been verified with the latest reference materials and by a technical review committee. Benefits of the Systematic Approach to Examination Preparation include: Emphasizing areas of weakness Providing immediate feedback Learning material through context and association Exam Prep: Fire Department Apparatus Driver/Operator, Second Edition includes: Fire Apparatus Driver/Operator practice examinations Self-scoring guide with page references for further study Winning test-taking tips and helpful hints Coverage of NFPA 1002, Fire

Apparatus Driver/Operator Professional Qualifications,  
2009 Edition

## **Building Performance Analysis**

Explores and brings together the existent body of knowledge on building performance analysis Building performance is an important yet surprisingly complex concept. This book presents a comprehensive and systematic overview of the subject. It provides a working definition of building performance, and an in-depth discussion of the role building performance plays throughout the building life cycle. The book also explores the perspectives of various stakeholders, the functions of buildings, performance requirements, performance quantification (both predicted and measured), criteria for success, and the challenges of using performance analysis in practice. Building Performance Analysis starts by introducing the subject of building performance: its key terms, definitions, history, and challenges. It then develops a theoretical foundation for the subject, explores the complexity of performance assessment, and the way that performance analysis impacts on actual buildings. In doing so, it attempts to answer the following questions: What is building performance? How can building performance be measured and analyzed? How does the analysis of building performance guide the improvement of buildings? And what can the building domain learn from the way performance is handled in other disciplines? Assembles the current body of knowledge on building performance analysis in one unique resource Offers

deep insights into the complexity of using building performance analysis throughout the entire building life cycle, including design, operation and management. It contributes an emergent theory of building performance and its analysis. Building Performance Analysis will appeal to the building science community, both from industry and academia. It specifically targets advanced students in architectural engineering, building services design, building performance simulation and similar fields who hold an interest in ensuring that buildings meet the needs of their stakeholders.

### **Exam Prep: Hazardous Materials Technician**

At head of title: International Association of Fire Chiefs.

### **Fire Service Hydraulics and Water Supply**

This basic, no-nonsense book is a necessity for all firefighters assigned to the truck, as well as members of fire departments who perform the numerous responsibilities of the truck on the fireground. Throughout the book, training tips are included to help you perform the various operations efficiently and effectively. Includes a study guide.

### **Guidelines for the Management of Change for Process Safety**

## **Private Fire Protection and Detection**

Information in this manual is intended to meet the requirements of the 2015 edition of NFPA® 1003, Standard for Airport Fire Fighter Professional Qualifications. Additional material addresses the airport fire fighting apparatus covered in Chapter 9 of the 2014 edition of NFPA® 1002, Standard on Fire Apparatus Driver/Operator Professional Qualifications. Key parts of NFPA® 402, Guide for Aircraft Rescue and Fire-Fighting Operations (2013 edition), and NFPA® 403, Standard for Aircraft Rescue and Fire-Fighting Services at Airports (2014 edition), are also covered in this manual. Other materials included in this manual are those subjects included in the training requirements of Federal Aviation Regulations (FARs) 139.315, 139.317, and 139.319.

## **International Building Code 2006**

Learn to safely and effectively drive and operate an apparatus with fire pumpers with the new Fire Service Pump Operator: Principles and Practice! This text is the core of a complete teaching and learning system that thoroughly supports instructors and prepares students for the job. The text includes up-to-date coverage the 2009 Edition of NFPA 1002, Standard for Fire Apparatus Driver/Operator Professional Qualifications. This text provides a thorough understanding of the types of fire apparatus equipped with pumps, how to safely drive them, and how to properly maintain these vehicles through inspection and testing programs. Students will also learn how to

operate fire pumps by gaining an understanding of water supply, nozzles and flow rates, optimal positioning, and more.

### **Pumping Apparatus Driver/Operator Handbook**

Completely updated version this classic reference covers both physical hazards and biological agents Provides updated information on protecting workers from proven and possible health risks from manual material handling, extremes of temperature and pressure, ionizing and non-ionizing (magnetic fields) radiation, shiftwork, and more Details major changes in our understanding of biological hazards including Ebola, Chikungunya, Zika, HIV, Hepatitis C, Lyme disease, MERS-CoV, TB, and much more All infectious diseases have been updated from an occupational health perspective Includes practical guidance on to how to set up medical surveillance for hazards and suggests preventive measures that can be used to reduce occupational diseases

### **The Definitive Handbook of Business Continuity Management**

### **2004 emergency response guidebook**

### **The Americans with Disabilities Act**

Fire safety is a major concern in many industries,

particularly as there have been significant increases in recent years in the quantities of hazardous materials in process, storage or transport. Plants are becoming larger and are often situated in or close to densely populated areas, and the hazards are continually highlighted with incidents such as the fires and explosions at the Piper Alpha oil and gas platform, and the Enschede firework factory. As a result, greater attention than ever before is now being given to the evaluation and control of these hazards. In a comprehensive treatment of the subject unavailable elsewhere, this book describes in detail the applications of hazard and risk analysis to fire safety, going on to develop and apply quantification methods. It also gives an explanation in quantitative terms of improvements in fire safety in association with the costs that are expended in their achievement. Furthermore, a quantitative approach is applied to major fire and explosion disasters to demonstrate crucial faults and events. Featuring: Full international coverage and a review of several major fires and explosion disasters. Presentation of the properties and science of fire including the latest research. Detailed coverage of the performance of fire safety measures. This is an essential book for practitioners in fire safety engineering, loss prevention professionals, technical personnel in insurance companies as well as academics involved in fire science and postgraduate students. This book is also a useful reference for fire safety officers, building designers, engineers in the process industries, safety practitioners and risk assessment consultants.

## **Fire Department Occupational Safety**

When the technical requirements of the 2015 INTERNATIONAL FIRE CODE (IFC) aren't enough, look no further than the 2015 INTERNATIONAL FIRE CODE COMMENTARY. In the tradition of the other titles in the International Code Council's highly successful Code Commentary series, the book includes the complete text of the 2015 International Fire Code, and presents it alongside detailed, in-depth commentaries. These commentaries help users to navigate critical IFC requirements, explaining why they were developed, their implications, and the problems that can result when they are not followed properly. This book is a must-have for any code official, engineer, architect, inspector, plans examiner, contractor, or firefighter seeking a solid foundation in the 2015 IFC and its applications.

## **Truck Company Operations**

Your exam performance will improve after using this system! Exam Prep: Hazardous Materials Technician, Second Edition is designed to thoroughly prepare you for a Hazardous Materials Technician certification, promotion, or training examination by including the same type of multiple-choice questions you are likely to encounter on the actual exam. To help improve examination scores, this preparation guide follows Performance Training Systems, Inc.'s Systematic Approach to Examination Preparation. Exam Prep: Hazardous Materials Technician, Second Edition is written by fire personnel explicitly for fire personnel,

and all content has been verified with the latest reference materials and by a technical review committee. Benefits of the Systematic Approach to Examination Preparation include: Emphasizing areas of weakness Providing immediate feedback Learning material through context and association Exam Prep: Hazardous Materials Technician, Second Edition includes: Practice Hazardous Material Technician examinations Self-scoring guide with page references for further study Winning test-taking tips and helpful hints Coverage of NFPA 472, Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents, 2008 Edition.

### **Fire Officer: Principles and Practice**

This volume discusses the Americans with Disabilities Act (ADA) and the rights it guarantees to those with disabilities including employment, transportation, public accommodations, government services, telecommunications, and access to public marketplaces. Also covers legislative provisions which are not part of the ADA. The Legal Almanac series serves to educate the general public on a variety of legal issues pertinent to everyday life and to keep readers informed of their rights and remedies under the law. Each volume in the series presents an explanation of a specific legal issue in simple, clearly written text, making the Almanac a concise and perfect desktop reference tool. All volumes provide state-by-state coverage. Selected state statutes are included, as are important case law and legislation,

charts and tables for comparison.

### **Nfpa 1021**

This guide is designed to thoroughly prepare you to sit for a Fire Apparatus Driver Operator examination. Teaching you the test-taking strategies used. Your exam performance will improve after using this system.

### **ARC Flash Hazard Analysis and Mitigation**

"Apply the 2014 NFPA 1021 Standard to ensure fire officers are ready to take command! New technologies, operating procedures, information management strategies, and many other factors impact today's fire service leaders. Fire officers must be prepared to address multiple challenges on the fireground, at the station, and in the community. Make sure personnel are ready to take command with up-to-date Job Performance Requirements (JPRs) in the 2014 NFPA 1021: Standard for Fire Officer Professional Qualifications. NFPA 1021 specifically identifies four levels of progression: Fire Officer Level I (supervisory); Fire Officer Level II (supervisory and managerial); Fire Officer Level III (managerial/administrative); Fire Officer Level IV (administrative)." -- provided by publisher.

### **Guidelines for Laboratory Design**

## **Exam Prep: Fire Department Apparatus Driver/Operator**

### **Fire Fighter I and II**

#### **Fundamentals of Fire Fighter Skills**

Provides up-to-date, comprehensive coverage that establishes minimum regulations for building systems using prescriptive and performance-related provisions.

#### **Chief Officer**

Your one-stop, comprehensive guide to commercial doors and door hardware from the brand you trust Illustrated Guide to Door Hardware: Design, Specification, Selection is the only book of its kind to compile all the relevant information regarding design, specifications, crafting, and reviewing shop drawings for door openings in one easy-to-access place. Content is presented consistently across chapters so professionals can find what they need quickly and reliably, and the book is illustrated with charts, photographs, and architectural details to more easily and meaningfully convey key information. Organized according to industry standards, each chapter focuses on a component of the door opening or door hardware and provides all options available, complete with everything professionals need to know about that component. When designing, specifying, creating, and

reviewing shop drawings for door openings, there are many elements to consider: physical items, such as the door, frame, and hanging devices; the opening's function; local codes and standards related to fire, life safety, and accessibility; aesthetics; quality and longevity versus cost; hardware cycle tests; security considerations; and electrified hardware requirements, to name a few. Until now, there hasn't been a single resource for this information. The only resource available that consolidates all the door and hardware standards and guidelines into one comprehensive publication Consistently formatted across chapters and topics for ease of use Packed with drawings and photographs Serves as a valuable study aid for DHI's certification exams If you're a professional tired of referring to numerous product magazines or endless online searches only to find short, out-of-date material, Illustrated Guide to Door Hardware: Design, Specification, Selection gives you everything you need in one convenient, comprehensive resource.

### **NFPA 1911**

Test-preparation guide helps individuals achieve top exam scores to qualify for a career as a firefighter. Offers targeted practice on crucial verbal, math, table, memory, map reading, and logic questions, as well as advice for optimum physical and mental preparation. Includes a detailed, realistic study plan, insider's advice on the physical fitness test and the oral interview.

## **Firefighter Exam**

Guidelines for Laboratory Design: Health and Safety Considerations, Third Edition provides reliable design information related to specific health and safety issues that need to be considered when building or renovating laboratories."

## **Fire Service Pump Operator**

Guidelines for the Management of Change for Process Safety provides guidance on the implementation of effective and efficient Management of Change (MOC) procedures, which can be applied to improve process safety. In addition to introducing MOC systems, the book describes how to design an initial system from scratch, including the scope of the system and the applications over a plant life cycle and the boundaries and overlaps with other process safety management systems. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

## **Fire Engineering**

The National Fire Protection Association (NFPA), International Association of Fire Chiefs (IAFC), and International Society of Fire Service Instructors (ISFSI) are pleased to bring you Fire Service Instructor: Principles and Practice, a new text developed to meet and exceed the 2007 Edition of NFPA 1041, Standard for Instructor Professional Qualifications. This text, which utilizes a case-based approach to learning in

order to encourage critical thinking, is the core of an integrated teaching and learning system for Fire Instructor I and II level courses. Fire Service Instructor: Principles and Practice is not only designed to help students meet the requirements to become a fire instructor, but also to empower them to become great educators within the fire and emergency services. Listen to a Podcast with Fire Service Instructor: Principles and Practice editor Forest Reeder to learn more about this training program! Forest discusses the concise nature of the text, its real world focus on how training is delivered in today's classrooms and training grounds, and the technology resources available to support the text. To listen now, visit: [http://d2jw81rkebrcvk.cloudfront.net/assets.multimedia/audio/Fire\\_Service\\_Instructor.mp3](http://d2jw81rkebrcvk.cloudfront.net/assets.multimedia/audio/Fire_Service_Instructor.mp3)

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