

# Ifsta Aerial Manuals

Fire Service Instructor: Principles and Practice  
Fireground Strategies  
NFPA 291 Recommended Practice for Fire Flow Testing and Marking of Hydrants  
Safe Operation of Fire Tankers  
Firefighting  
Fire and Emergency Services Instructor  
Aircraft Rescue and Fire Fighting  
The Fire Chief's Handbook, 7th Edition  
Fire and Emergency Services Safety Officer  
Vehicle Extrication  
Company Officer's Handbook  
2004 emergency response guidebook  
Fire and Emergency Services Company Officer  
Firefighter's Handbook on Wildland Firefighting  
Safety and Survival on the Fireground  
Fire Service Pump Operator  
Fire Officer  
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Voice Radio Communications Guide for the Fire Service  
Fire Service Technical Search and Rescue  
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How To Excel At Fire Department Promotional Exams  
Fire Service Hydraulics and Water Supply  
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Essentials of Fire Fighting  
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Fire Command  
In-Flight Simulators and Fly-by-Wire/Light Demonstrators  
Hazardous Materials Technician  
Fundamentals of Fire Fighter Skills  
Fire Officer's Handbook of Tactics

## Fire Service Instructor: Principles and

## Practice

### Fireground Strategies

#### **NFPA 291 Recommended Practice for Fire Flow Testing and Marking of Hydrants**

" Be a better decision maker and incident commander at structure fires! This all new book provides strategy and tactics for the incident commander arriving at structure fire incidents using the available responding resources. Learn to assess the fire situation, initiate a command structure, and deploy resources until the transfer of command or termination of the incident. The NEW fire dynamics content includes the latest research on fire behavior from UL and NIST with all new photographs and drawings that illustrate these new fire science concepts. Read and see the new science so that you can apply it to structure fires. Strategies and tactics from national experts are presented and applied to hypothetical structure fire scenarios throughout the book. The target audience is all career and volunteer personnel who respond to single and multifamily dwellings incidents, commercial occupancies, and unique target or special hazards events. The manual meets the requirements of the FESHE course outcomes for the Associates level course, "Strategies and Tactics." This manual also broadens the knowledge of the strategy and tactics JPR's in NFPA® 1021, Standard for Fire Officer

Professional Qualifications. The manual is the best choice for use in training agencies, college degree programs, and as a resource for firefighters and fire officers who serve as, or are training to be, incident commanders. Additional standards referenced in the manual include NFPA 920, 921, 400. Each of the last three (3) chapters include five (5) training scenarios that reflect real incidents that an incident commander will find when responding to a residential structure, a commercial structure fire and a structure fire with special hazards."

### **Safe Operation of Fire Tankers**

This book has been revised and expanded to include new material on decentralization, further incident reporting, and post-control activities, estate homes, New Millennium multiple dwellings, storage occupancies, strategic considerations of renovation and more."--BOOK JACKET.

### **Firefighting**

### **Fire and Emergency Services Instructor**

This book offers the first complete account of more than sixty years of international research on In-Flight Simulation and related development of electronic and electro-optic flight control system technologies ("Fly-by-Wire" and "Fly-by-Light"). They have provided a versatile and experimental procedure that is of particular importance for verification, optimization,

and evaluation of flying qualities and flight safety of manned or unmanned aircraft systems. Extensive coverage is given in the book to both fundamental information related to flight testing and state-of-the-art advances in the design and implementation of electronic and electro-optic flight control systems, which have made In-Flight Simulation possible. Written by experts, the respective chapters clearly show the interdependence between various aeronautical disciplines and in-flight simulation methods. Taken together, they form a truly multidisciplinary book that addresses the needs of not just flight test engineers, but also other aeronautical scientists, engineers and project managers and historians as well. Students with a general interest in aeronautics as well as researchers in countries with growing aeronautical ambitions will also find the book useful. The omission of mathematical equations and in-depth theoretical discussions in favor of fresh discussions on innovative experiments, together with the inclusion of anecdotes and fascinating photos, make this book not only an enjoyable read, but also an important incentive to future research. The book, translated from the German by Ravindra Jategaonkar, is an extended and revised English edition of the book *Fliegende Simulatoren und Technologieträger*, edited by Peter Hamel and published by Appelhans in 2014.

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

Fire Service Technical Search and Rescue, 8th Edition is a primary training text for Level I Rescuers according to NFPA® 1006. The manual presents the

knowledge and skills for fire service search and technical rescue for Level I Rescuers to safely and effectively conduct Operations-level rescues as defined in NFPA® 1006. The book also supports the corresponding chapters of NFPA® 1670, Standard on Operations and Training for Technical Search and Rescue Incidents (2014 Edition). According to NFPA® 1670, an Operations Level Rescuer is able to participate in more complex search and rescue incidents under the supervision of a Rescue Technician. This NEW training manual focuses on Operations-level situations most common for firefighters and rescue squad members. Technician-level information has been included to provide Operations-level fire/rescue personnel with the background information needed to effectively support complex technical rescue operations. A firefighter or rescue squad member will find the knowledge and skills in this manual, to safely and effectively perform basic search and rescue operations under appropriate supervision. Curriculum USB Flash Drive is now available. This customizable curriculum includes lesson plans for the instructor complete with learning objectives, lesson outlines and assignment sheets. PowerPoint® visuals, skill sheets, quizzes and clip art are also included in the curriculum.

### **The Fire Chief's Handbook, 7th Edition**

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

## **Fire and Emergency Services Safety Officer**

### **Vehicle Extrication**

### **Company Officer's Handbook**

\* Identify hazards and how to avoid them \* Maintain firefighter safety \* Hazards or fires do not discriminate, they only destroy Learn from one of the

leading authorities on how to identify hazards and avoid them. Dunn discusses the 15 most common hazards faced by firefighters, including cellar fires, collapse, peaked roofs, wildfires, interior operations, ladder operations, forcible entry, and others.

### **2004 emergency response guidebook**

John Norman has updated his best-selling book, a guide for the firefighter and fire officer who, having learned the basic mechanics of the trade, are looking for specific methods for handling specific situations. In this new fourth edition, readers will find a new chapter on lightweight construction, a new chapter on electrical fires and emergencies, updates to many chapters including such topics as wind-driven fires, and many new illustrations.

### **Fire and Emergency Services Company Officer**

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.

### **Firefighter's Handbook on Wildland Firefighting**

Make sure that you have the training and certification needed to provide the best risk reduction to your community. Reducing community risk requires trained individuals to verify that a locality adheres to locally adopted fire and life-safety standards for structural safety components in construction and renovations. Fire Inspection and Code Enforcement, 8th Edition, provides fire and emergency services personnel and civilian inspectors with the basic information necessary to meet the job performance requirements (JPRs) of NFPA® 1031 for Level I and Level II Fire Inspectors. Chapters are delineated with two clearly marked sections: the first section for Level I information followed by a second section for Level II information. Arabic edition of Arabic edition of Fire Inspection and code Enforcement Handbook, 8th Edition now available.

Visit <http://www.afssac.edu.sa/arhome/FICE-8-AR> for ordering instructions.

### **Safety and Survival on the Fireground**

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.

### **Fire Service Pump Operator**

### **Fire Officer**

The Complete Vehicle Extrication Technical Rescuer Level I and II Training Solution! Technical rescuers need to know how to safely and effectively operate at small and large vehicle and machinery extrication incidents. Vehicle Extrication Levels I & II: Principles and Practice provides all the critical knowledge and skills necessary for technical rescue teams to perform in these environments. Vehicle Extrication Levels I & II: Principles and Practice meets and exceeds all the job performance requirements as outlined in chapters 4, 5, and 10 from the 2008 Edition of NFPA 1006, Standard for Technical Rescuer Professional Qualifications to achieve the competencies as a Level I and II Vehicle and Machinery technical rescuer. In addition, this text covers all the objectives outlined in

NFPA 1670, Standard on Operations and Training for Technical Search and Rescue Incidents, 2009 Edition from chapters 4, 8, and 12 so that rescue organizations have the capabilities to deliver vehicle and machinery rescue successfully in their jurisdictions. Vehicle Extrication Levels I & II: Principles and Practice combines current content with dynamic features and interactive technology to better support instructors and organizations to help prepare future high performing technical rescuers. Modern technologies including alternative powered vehicles and all electric vehicles are covered. Stand-alone chapters on Commercial Vehicles and Agricultural Extrication ensure Level II skills are comprehensively addressed. This text is packaged with an access code which provides free admission to [www.Fire.jbpub.com/VehicleExtrication](http://www.Fire.jbpub.com/VehicleExtrication), the companion website to complement Vehicle Extrication Levels I & II: Principles and Practice. This engaging companion website provides a wealth of resources that are free and available to all, including:

- Crossword Puzzles
- Flashcards
- Glossary
- Ready for Review

Your personal access code gives you special user privileges and provides free admission to additional interactive educational resources such as:

- Appendix D: Ropes and Rigging : Ropes and rigging is a critical technical rescuer skill. Get up-to-speed on the skills required of all technical rescues with this special comprehensive appendix covering all the JPR's from Section 5.5 Ropes/Rigging as required from NFPA® 1006, Standard for Technical Rescuer Professional Qualifications, 2008 Edition.
- Chapter Pretests: Discover your strengths and weaknesses.
- Interactive Skill Drills: Practice your skills in the

safety of a virtual environment. Listen to a podcast with Vehicle Extrication Levels I & II: Principles and Practice author David Sweet to learn more about this training program! Listen now: <http://d2jw81rkebrcvk.cloudfront.net/assets/multimedia/audio/vehicleextrication.mp3>.

### **Fire and Emergency Services Instructor**

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.

## **Fire Inspection and Code Enforcement**

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 NFPA? 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.

### **NFPA 1911**

### **Voice Radio Communications Guide for the Fire Service**

The third edition of Fire Department Incident Safety Officer has been thoroughly updated to cover the latest trends, information, and best-practices needed by current and aspiring Incident Safety Officers (ISO's). Developed in partnership with the Fire Department Safety Officer's Association and based on the 2015 Edition of NFPA 1521, Standard for Fire Department Safety Officer Professional Qualifications, this authoritative resource focuses uniquely on the roles, responsibilities, and duties for fire service officers assigned to the incident command staff position of safety officer. From smoke reading to alternative energy sources to green construction buildings, Fire Department Incident Safety Officer, Third Edition is loaded with up-to-date information needed to keep fire department members safe, including: A new chapter dedicated to the Incident

Safety Officer at Training Drills and Special Events  
Entire chapters devoted to important topics like  
reading smoke, reading buildings,

## **Fire Service Technical Search and Rescue**

### **Exam Prep**

Designed to thoroughly prepare you for a Fire  
Department Safety Officer certification, promotion, or  
training examination.

## **Truck Company Fireground Operations**

The Fire Chief's Handbook, 7th Edition continues Fire  
Engineering's 82-year tradition of publishing the  
definitive resource for advanced fire service training.  
The text has been completely updated to meet the  
changing environment and added responsibilities of  
the fire service. Returning authors have rewritten  
their chapter to address today's leadership and  
administrative concerns, while new authors are also  
introduced to offer new perspectives. This  
comprehensive guidebook is designed for firefighters,  
company officers, and chief officers of all ranks and  
department types who want the latest information on  
the fundamentals of leadership in the fire service, as  
well as managing the day-to-day operations of a fire  
department.

## **How To Excel At Fire Department Promotional Exams**

This text deals with the basics of wildland and forest firefighting. It has been totally revised and is now in full color.

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

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!

### **Progressive Leadership Principles, Concepts, and Tools**

This Manual is designed to help affiliate leaders and members understand new communication and radio system issues in order to remain informed players in the process.

### **Fire Department Incident Safety Officer**

Fire and Emergency Services Instructor Eighth Edition helps students meet the job performance requirements of NFPA(R) 1041, Standard for Fire Service Instructor Professional Qualifications (2012) for Instructor levels I, II, and III. The manual also provides a reference for instructors who may perform duties outside of their current certification levels. This new edition has been reorganized to provide clearer separations between the three instructor levels: Ch. 1-9 cover Level I; Ch. 10-14, Level II; and Ch. 15-17

Level III. The text has been shortened from 22 chapters to 17. As a result, the text is more concise and easier to teach. The text reflects new changes in the NFPA(R) standard, including a discussion of bias in instructional and testing materials.

### **Structural Fire Fighting**

Firefighting--Basic Skills and Techniques is a comprehensive text that reflects the diversity of the firefighter's activities and provides the background needed for effective functioning as a member of the fire team. The text provides clear, easy-to-understand content, ranging from the physics of combustion to the specific procedures required in hazardous materials incidents.

### **Boot Basics**

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

### **Fire Apparatus Driver/Operator**

Tankers account for the largest number of firefighter crash deaths of all types of fire department vehicles. This report examines the various causal factors that have been identified as problematic for tankers and their drivers.

### **Exam Prep**

## **Essentials of Fire Fighting**

### **NFPA 921 2017**

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)

### **Fire Command**

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.

### **In-Flight Simulators and Fly-by-Wire/Light Demonstrators**

Boot Basics is a concise, general explanation of what a firefighter needs to know to begin a lifelong career in the fire service. Boot Basics provides the all-important overview of the fire service allowing you to acclimate to the demands and rigors of the profession. Chapter by chapter, quiz and answers, Boot Basics gets you to where you want to go.

### **Hazardous Materials Technician**

This new IFSTA manual details the training required of Company Officers according to NFPA® 1021,

Standard for Fire Officer Professional Qualifications, 2014 Edition. The manual is divided into two sections to make a clear distinction between the information needed for Fire Officer Level I and Fire Officer Level II. Both print and eBook formats are available. There is no shortage of issues that a company officer might face in the everyday operation of a fire company or unit. This manual addresses the wide range of topics and issues encountered by a company officer, from leadership and supervision to health and safety issues. Great attention was given to focus on the job performance requirements of NFPA® 1021. The fifth edition of Fire and Emergency Services Company Officer builds on the previous edition of the manual while presenting the material in a more concise manner to make it easier for students to read and instructors to teach. By merging related topics, the number of chapters was reduced from 32 in the fourth edition to 17 in the new manual while preserving the material related to the NFPA® standard. The number of appendices was reduced from 20 to 4 by removing information that can be found in other media. Along with reducing the volume of material from the fourth edition, the fifth edition of Fire and Emergency Services Company Officer offers several new features. The manual features a new look with IFSTA's single-column format and upgraded and updated curriculum components. Learning activities are included to help instructors present the material to their students. Case Histories open each chapter to illustrate important lessons learned in the real world. Photographs, illustrations, and tables are included throughout the manual to illustrate key points and improve the overall instructional value of the

material.

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

Getting promoted in the fire service is not an easy process. Many people have that desire to promote, but for whatever reason cannot put the pieces together to make it a reality. Over the 20 plus years I have been in the fire service, I have had the opportunity to be on both sides of the promotional process - as a candidate, and as a rater and proctor. This book will assist fire department personnel specifically prepare for their next promotional exam. Promotional candidates will be exposed to and offered key points for the most common tasks and events within a fire department promotional process including, but not limited to: promotional preparation, completing the application, resume preparation, the written exam, the oral interview, the personnel problem, the oral presentation, and the emergency simulation.

### **Fire Officer's Handbook of Tactics**

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