

Aerial Apparatus Operator Handbook 2nd Edition

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.

This Classic Text Describes And Illustrates Engine Company Procedures For Working Structural Fires. From Water Supply To Extinguishing Agents, The Complete Range Of Operations Is Covered In Engine Company Fireground Operations.

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

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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

Firemanship ...

Pumping Apparatus Driver/Operator Handbook

Truck Company Operations

Cal/OSHA Pocket Guide for the Construction Industry

Fire Service Pump Operator

Fire Service Instructor

The Complete Fire Inspector I and II Training Solution! Fire inspectors need to know how to interpret and apply national and local codes and standards in the office and in the field. Fire Inspector: Principles and Practice is designed to prepare fire inspectors to ensure the highest standards of fire and life safety in their communities. The National Fire Protection Association (NFPA) and the International Association of Fire Chiefs (IAFC) are pleased to bring you Fire Inspector: Principles and Practice, a modern

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integrated teaching and learning system for the fire inspector. This textbook meets and exceeds the job performance requirements for level I and II fire inspectors from Chapters 4 and 5 of NFPA 1031, Standard for Professional Qualifications for Fire Inspector and Plan Examiner, 2009 Edition. Fire Inspector: Principles and Practice is built on a solid foundation of the basics: building construction, fire growth, and types of occupancies. This fundamental knowledge is presented in a concise, understandable writing style that is easy to digest and recall. The solid foundation of fire and building knowledge then branches out to show the fire inspector how abstract concepts and codes will be concretely applied on a daily basis. This is the text that truly prepares fire inspectors for the real world.

This textbook matches the course outline and objectives identified by the National Fire Academy's Fire and Emergency Services Higher Education (FESHE) committee for the Building Construction for Fire Protection core course. This new 3rd edition provides the reader with basic instruction about how buildings are designed and constructed and how this relates to emergency operations. In addition to basic construction principles, a new emphasis is placed on firefighter safety, newer types of construction that may be difficult to identify, and green construction principles. This edition is illustrated with new drawings and photos, case histories that emphasize real-life safety principles, key terms, and review questions. Fire inspectors, preincident planners, fireground commanders, investigators, and firefighters will all find useful and valuable information in this new edition.

Fire Officer

Chief Officer

Safe Operation of Fire Tankers

Engine Company Fireground Operations

Exam Prep: Fire Department Apparatus Driver/Operator

This resource aims to reduce injuries and fatalities on the fireground by preventing human error. It provides fire service professionals with the necessary communication, leadership, and decision-making tools to operate safely and effectively under stressful conditions. Although the concept of crew resource management has been around since the 1970s, this is the first book to apply C(to the fire service industry. Safe, efficient, code-compliant electrical installations are made simple with the latest publication of this widely popular resource. Like its highly successful previous editions, the National Electrical Code 2011 spiral bound version combines solid, thorough, research-based content with the tools you need to build an in-depth understanding of the most important topics. New to the 2011 edition are articles including first-time Article 399 on Outdoor, Overhead Conductors with over 600 volts, first-time Article 694 on Small Wind Electric Systems, first-time Article 840 on Premises Powered Broadband Communications Systems, and more. This spiralbound version allows users to open the code to a certain page and easily keep the book open while referencing that page. The National Electrical Code is adopted in all 50 states, and is an essential reference for those in or entering careers in electrical design,

installation, inspection, and safety.

The Cal/OSHA Pocket Guide for the Construction Industry is a handy guide for workers, employers, supervisors, and safety personnel. This latest 2011 edition is a quick field reference that summarizes selected safety standards from the California Code of Regulations. The major subject headings are alphabetized and cross-referenced within the text, and it has a detailed index. Spiral bound, 8.5 x 5.5"

National Electrical Code

Fire Department Apparatus Driver Operator

Understanding and Implementing the 16 Firefighter Life Safety Initiatives

Fundamentals of Fire Fighter Skills

A Practitioner's Guide to Valid and Defensible Employment Testing

The Art of Reading Buildings focuses on the practical art of reading a building and applying its positive and negative attributes in developing a size-up for fireground operations that center on structure fires. First-due company officers, incident commanders, and safety officers will appreciate the practical "street-wise" lessons captured in the book. Chief officers, training officers, engineers, firefighters, and fire science degree candidates

will benefit from the wide range of building construction topics covered in this text. Features include:

- Understand the technical and practical aspects of building construction
- Learn on-the-spot building construction assessment using the authors' custom Rapid Street-Read Guides
- Develop a quick construction size-up for immediate application to fireground operations
- Recognize firefighter traps in newer and alternative construction methods
- This text covers objectives for the National Fire Academy's Fire and Emergency Services in Higher Education (FESHE) Building Construction for Fire Protection course

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.

Understanding hydraulics and pump operations doesn't have to be difficult, and it is of key importance to the science of fire engineering. Putting all the pieces together correctly so that the right stream is brought

to the fire is essential to effective fireground operations. In the second edition of *Fire Service Hydraulics and Pump Operations*, author Paul Spurgeon, engineer/pump operator with the Denver Fire Department, breaks down the sometimes difficult-to-understand formulas of hydraulics and pumps into easily learned steps, taking care to explain the hows and whys of each formula discussed. Using an in-the-street, practical approach, Spurgeon teaches readers how to develop proper fire streams as well as how they relate to overall fireground strategies. He covers hydraulics and pumps extensively—from the properties of water to its supply to pumping to sprinkler systems and foams. So readers can put what they've learned into practice, Spurgeon provides both end-of-chapter tests and practice sets at the end of the book, complete with answers so that readers can check their knowledge. The second edition includes numerous updates and additions, including the Rule of Thumb chapter that illustrates how to perform these complex calculations while under stress on the fireground. This text meets the learning objectives for FESHE Fire Protection Hydraulics and Water Supply course work. Features and Benefits:

- Summary of chapter formulas
- End-of-chapter tests with answers
- Practice sets with answers to further test your understanding

Building Construction Related to the Fire Service NFPA 1911

Fire Service Hydraulics & Pump Operations, 2nd Ed Crew Resource Management for the Fire Service

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.

The 1st edition of Structural Fire Fighting: Initial Strategy and Tactics is intended to provide fire personnel with the knowledge needed to deploy resources in the first 10 minutes of any structural fire incident. The manual is designed to help the reader develop a logical decision-making process for determining incident priorities, strategies, and tactics regardless of the available resources or configuration of the emergency services organization. Scenarios for residential, commercial, and special hazard incidents are included with recommended best practices and considerations. Training officers can use these scenarios, modified to local resources and realities, to develop classroom discussions or field simulations. This manual is a companion to Structural Fire Fighting: Truck Company Skills and Tactics, 2nd edition and the soon to be released Structural Fire Fighting: High Rise Fire Fighting. Each chapter of the manual contains learning objectives, key terms, and review questions to assist the reader in understanding the material.

This textbook was developed as a joint project between the National Fallen Firefighters

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Foundation (NFFF) and Fire Protection Publications. It provides a detailed overview and implementation strategies for the 16 Fire Fighter Life Safety Initiatives that were developed by the NFFF at their landmark summit in 2004. Each of the chapters was written by a different highly-respected fire service subject matter expert on that topic. This text provides the information necessary to meet the FESHE courses Principles of Fire and Emergency Services Safety and Survival (associate degree level) and Advanced Principles in Fire and Emergency Services Safety and Survival (bachelor degree level).

TC 3-21.76

Plans Examiner for Fire and Emergency Services

Brannigan's Building Construction for the Fire Service

Structural Fire Fighting

Principles and Practice

Author John Mittendorf has completely rewritten his best-selling book, Truck Company Operations, a must-have for all firefighters who are assigned to the truck and who have responsibilities for the truck on the fireground. The new second edition covers the many aspects, tasks, and functions of a truck company, and contains new and expanded information related to search, reading a building, reading smoke, the Ten Commandments of truck company operations, operating truck apparatus, and more--all from a truck company perspective.

This manual implements Air Force Policy Directive (AFPD) 36-28, Awards and

Decorations Programs; and AFPD 36-31, Personal Affairs. This manual governs the Air Force special trophies, awards, decorations and memorialization programs. It applies to Regular Air Force, Air Force Reserve and Air National Guard personnel; and where specified applies to Air Force civilian employees paid through appropriated funds. In collaboration with the Chief of Air Force Reserve (AF/RE) and Director of the Air National Guard (NGB/CF), the Deputy Chief of Staff for Manpower, Personnel, and Services (AF/A1) develops personnel policy for the Air Force Awards and Memorialization Program. Ensure all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual (AFMAN) 33-363, Management of Records, and disposed of in accordance with the Air Force Records Disposition Schedule located in the Air Force Records Information Management System.

This version includes all 21 chapters of Essentials of Fire Fighting, 6th Edition and adds three chapters written and validated to meet the emergency medical and hazardous materials requirements of NFPA® 1001, 2013 Edition. Chapter 22 specifically addresses the Firefighter I and Firefighter II knowledge and skills requirements for the emergency medical care competencies identified in NFPA® 1001, 2013 Edition Chapter 4. Chapters 23 and 24 meet the First Responder Awareness and Operations Levels for Responders according to NFPA® 472: Standard for Competence of Responders to Hazardous

Materials/Weapons of Mass Destruction Incidents, 2012 Edition and OSHA 1910.120. The chapters also provide validated content to meet Section 6.6, Mission-Specific Competencies: Product Control, of NFPA® 472. The hazardous materials information is adapted from the IFSTA Hazardous Materials for First Responders, 4th Edition.

Fire Apparatus Driver/Operator

Guide for Aviation Medical Examiners

Pump, Aerial, Tiller, and Mobile Water Supply

Fire Protection Hydraulics and Water Supply, Revised Third Edition

Fire Officer's Handbook of Tactics

At head of title: International Association of Fire Chiefs.

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.

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.

Ranger Handbook (Large Format Edition)

The Art of Reading Buildings

Ranger Handbook

Initial Response

Fire Instructor I and II

The history of the American Ranger is a long and colorful saga of courage, daring, and outstanding leadership. It is a story of men whose skills in the art of fighting have seldom been surpassed. The United States Army Rangers are an elite military formation that has existed, in some form or another, since the American Revolution. A group of highly-trained and well-organized soldiers, US Army Rangers must be prepared to handle any number of dangerous, life-threatening situations at a moment's notice-and they must do so calmly and decisively. This is their handbook. Packed with down-to-earth, practical information, The Ranger Handbook contains chapters on Ranger leadership, battle drills, survival, and first aid, as well as sections on military mountaineering, aviation, waterborne missions, demolition, reconnaissance and communications. If you want to be prepared for anything, this is the book for you. Readers interested in related titles from The

U.S. Army will also want to see: Army Guerrilla Warfare Handbook (ISBN: 9781626542730) Army Guide to Boobytraps (ISBN: 9781626544703) Army Improvised Munitions Handbook (ISBN: 9781626542679) Army Leadership Field Manual FM 22-100 (ISBN: 9781626544291) Army M-1 Garand Technical Manual (ISBN: 9781626543300) Army Physical Readiness Training with Change FM 7-22 (ISBN: 9781626544017) Army Special Forces Guide to Unconventional Warfare (ISBN: 9781626542709) Army Survival Manual FM 21-76 (ISBN: 9781626544413) Army/Marine Corps Counterinsurgency Field Manual (ISBN: 9781626544246) Map Reading and Land Navigation FM 3-25.26 (ISBN: 9781626542983) Rigging Techniques, Procedures, and Applications FM 5-125 (ISBN: 9781626544338) Special Forces Sniper Training and Employment FM 3-05.222 (ISBN: 9781626544482) The Infantry Rifle Platoon and Squad FM 3-21.8 / 7-8 (ISBN: 9781626544277) Understanding Rigging (ISBN: 9781626544673)

Brannigan's Building Construction for the Fire Service, Fourth Edition is a must read for fire fighters, prospective fire fighters, and fire science students. This edition continues the Brannigan tradition of using plain language to describe technical information about different building types and their unique hazards. This text ensures that critical fire fighting information is easy-to-understand and gives valuable experience to fire fighters before stepping onto the fireground. The first edition of Building Construction for the Fire Service was published in 1971. Frank Brannigan was compelled to write the most comprehensive building construction text for the fire service so that he could save fire fighters' lives. His

passion for detail and extensive practical experience helped him to develop the most popular text on the market. His motto of: "Know your buildings," informs every aspect of this new edition of the text. Listen to a Podcast with Brannigan's Building Construction for the Fire Service, Fourth Edition co-author Glenn Corbett to learn more about this training program! Glenn discusses his relationship with the late Frank Brannigan, the dangers of heavy construction timber, occupancy specific hazards, and other areas of emphasis within the Fourth Edition. To listen now, visit: http://d2jw81rkebrcvk.cloudfront.net/assets/multimedia/audio/Building_Construction.mp3.

Adverse impact analyses and test validation promote social justice and equity. Employers who unknowingly use invalid tests or recruitment procedures that have an adverse impact are reducing minority and/or female representation in their workforce, unfairly screening out qualified workers and (worst of all) just plain discriminating. Dan Biddle's Adverse Impact and Test Validation provides you with analyses that allow you to identify which of your selection procedures have adverse impact. The validation steps will help you decide whether to keep the selection procedure (because it's valid), change it, or stop using it altogether. This second edition contains new material on using multiple regression to evaluate pay practices and provides step-by-step instructions for using SPSS or Excel for evaluating your company's pay practices for possible inequities. New content on how to define "Internet applicants" and set up defensible Basic Qualifications (BQs) for online recruiting will help employers ensure compliance with EEO

regulations and screen in qualified applicants. Specific guidelines for developing and validating written job knowledge tests, such as those used for police and fire promotional testing, have also been included in this new edition. The CD included in the back cover of the book includes tools (which may be used on a trial evaluation basis) describing several of the functions described in the book, including Adverse Impact Toolkit®, Test Validation and Analysis Program® (TVAP®), Guidelines Oriented Job Analysis® (GOJA®) Manual, and Content Validity Checklists. This highly pragmatic guide goes beyond the concepts, theories and ideas behind adverse impact and test validation. It not only explains what to do but crucially, also shows you how to do it. The second edition has been expanded to include two brand new chapters with a new Appendix and comes with new editions of the accompanying software. As a means of protecting your organization from litigation, damage to employee relations and to your corporate reputation, Adverse Impact and Test Validation is a 'must-have' purchase for human resource professionals, testing and recruitment specialists.

Fire Department Apparatus Driver/Operator

Self-study Guide for the Second Edition of Aerial Apparatus Driver/operator Handbook

Adverse Impact and Test Validation

Essentials of Fire Fighting and Fire Department Operations

Fire and Emergency Services Company Officer

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.

Over the past twenty years there has been considerable improvement and new information in the design of port and berth structures. This handbook reflects the latest progress and developments in navigation safety, port planning and site selection, layout of container, oil and gas terminals, cargo handling, berth design and construction, fender and mooring principles. It presents guidelines and recommendations for the main items and assumptions in the layout, design and construction of modern port structures, and the forces and loadings acting on them. The book provides an evaluation of different designs and construction methods for port and berth structures, and recommendations given by the different international harbour standards and recommendations. Practising harbour and port engineers and students will find the handbook an invaluable source of information.

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.

Port Designer's Handbook

Fire Fighter I & II

Standard for the Inspection, Maintenance, Testing, and Retirement of In-service Emergency Vehicles, 2017

Recommendations and Guidelines

Exam Prep

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.

The Complete Fire Officer III and IV Training Solution! Chief officers need to know how to make the transition from company officer to chief officer. Chief Officer: Principles and Practice is designed to help make the transition from company officer to chief officer a smooth evolution. Covering the entire scope of Levels III and IV from the 2009 Edition of NFPA 1021, Standard for Fire Officer Professional Qualifications, Chief Officer combines current content with dynamic features and interactive technology to better support instructors and to help prepare future chief officers to become problem-solving leaders for their organizations. Chief Officer: Principles and Practice has a clear focus on instilling

fire fighter safety throughout an organization's culture. Reducing fire fighter injuries and deaths requires the dedicated efforts of every fire fighter, fire officer, and fire department. The entire fire community must work together to achieve one common goal: to ensure that everyone goes home. Chief officers therefore set the tone for safety in their organization, and this textbook embraces that philosophy. It is with this goal in mind that the 16 Firefighter Life Safety Initiatives, developed by the National Fallen Firefighters Foundation, are integrated throughout the text. The features in this textbook will help students take that extra step toward becoming outstanding chief officers. These features include:

- **Scenario-Based Learning. You Are the Chief Officer and Chief Officer in Action** are found in each chapter to encourage and foster critical thinking skills.
- **Practical Tips for the Chief Officer. Chief Officer Tips and Voices of Experience** essays are integrated into each chapter to provide helpful advice from experienced chief officers.
- **Level IV Job Performance Requirements. Fire Officer Level IV** content is highlighted to discern Level III JPRs from Level IV.
- **Walk the Talk.** Additional activities encourage students to take what they have learned in the chapter and apply it to their own department.

Fire service pump operators must have an understanding of the many laws of science that govern the study of hydraulics and water supply in order to be able to handle the complex hydraulic problems that may arise in real world scenarios.

Personnel - Awards and Memorialization Program (Air Force Manual 36-2806)