

AIRCRAFT RESCUE AND FIRE FIGHTING

SEVENTH EDITION



IFSTA
INTERNATIONAL FIRE SERVICE TRAINING ASSOCIATION

A NONPROFIT EDUCATIONAL ASSOCIATION ORGANIZED TO DEVELOP TRAINING MATERIALS FOR THE FIRE SERVICE

Aircraft Rescue Fire Fighting Manual

**United States. Department of the
Army**



Aircraft Rescue Fire Fighting Manual:

Aircraft Rescue and Fire Fighting IFSTA, 2008 Aircraft Rescue and Fire Fighting provides basic information needed by firefighters to effectively perform the various tasks involved in aircraft rescue and fire fighting. Material covered includes qualifications for aircraft rescue and fire fighting ARFF personnel, aircraft and airport familiarization, safety and aircraft hazards, ARFF communications, extinguishing agents, ARFF apparatus, rescue tools and equipment, ARFF driver/operator, airport emergency planning, and ARFF strategic and tactical operations. Aircraft Rescue and Fire Fighting addresses the requirements of NFPA 1003 Standard for Airport Fire Fighter Professional Qualifications, 2005 edition. Additional material addresses the airport fire fighting apparatus covered in Chapter 9 of the 2008 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, 2008 edition, and NFPA 403 Standard for Aircraft Rescue and Fire Fighting Services at Airports, 2008 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. Manual for Aircraft Rescue and Fire Fighting Operations, National Fire Protection Association, 1989. **Manual for Aircraft Rescue and Fire Fighting Operations**, American National Standards Institute, National Fire Protection Association, 1991. *Programs for Training of Aircraft Rescue and Firefighting Personnel*, United States Federal Aviation Administration, 1995. *Manual for Aircraft Rescue and Fire Fighting Operational Procedures*, American National Standards Institute, National Fire Protection Association, 1984.

Aircraft Rescue and Firefighting IFSTA, 2017-08-22 Airport Firefighters, Airport Driver Operators, and Airport Crew Chiefs will use this text to meet the most current NFPA FARs and ICAO requirements. The book includes 31 Skill Sheets. NEW in this edition: Photos, Illustrations, and Learning Activities. ALL NEW Review Questions for all 12 chapters. Exam Prep for students is a separate item. This book provides the information firefighters need to effectively perform the tasks for aircraft rescue and fire fighting and to complete airport firefighter certification. Content includes Familiarization with civilian and military aircraft, Airport familiarization, Operating structural and specialized aircraft fire fighting apparatus and equipment, Safety and aircraft Hazards, Airport fire and rescue communications, Rescue tools and equipment including gaining access to aircraft interiors, Aircraft fuels, aircraft components and extinguishing agents, Aircraft fire suppression and strategy and tactics including engines, auxiliary power units, wheel assemblies, and rocket engines, ARFF vehicle driver/operator, Airport emergency planning, The theory and practice of aircraft fire fighting and rescue operations. The information in this manual is intended to meet the requirements of NFPA 1003 Standard for Airport Fire Fighter Professional Qualifications, 2015 NFPA 1002 Standard on Fire Apparatus Driver/Operator Professional Qualifications, 2014 Chapter 9 requirements, are also included NFPA 402 Guide for Aircraft Rescue and Fire Fighting Operations, 2013, and NFPA 403 Standard for Aircraft Rescue and Fire Fighting Services at Airports, 2014, are referenced throughout the book. Federal Aviation Regulations FARs 139.315, 139.317,

and the International Civil Aviation Organization ICAO Airport Services Manual Parts 1 and 7 training requirements are also included Complete IFSTA Curriculum is a separate item and provided by IFSTA at no cost to qualified instructors **SFPE Handbook of Fire Protection Engineering** Morgan J. Hurley, Daniel T. Gottuk, John R. Hall Jr., Kazunori Harada, Erica D. Kuligowski, Milosh Puchovsky, José L. Torero, John M. Watts Jr., CHRISTOPHER J. WIECZOREK, 2015-10-07 Revised and significantly expanded the fifth edition of this classic work offers both new and substantially updated information As the definitive reference on fire protection engineering this book provides thorough treatment of the current best practices in fire protection engineering and performance based fire safety Over 130 eminent fire engineers and researchers contributed chapters to the book representing universities and professional organizations around the world It remains the indispensable source for reliable coverage of fire safety engineering fundamentals fire dynamics hazard calculations fire risk analysis modeling and more With seventeen new chapters and over 1 800 figures the this new edition contains Step by step equations that explain engineering calculations Comprehensive revision of the coverage of human behavior in fire including several new chapters on egress system design occupant evacuation scenarios combustion toxicity and data for human behavior analysis Revised fundamental chapters for a stronger sense of context Added chapters on fire protection system selection and design including selection of fire safety systems system activation and controls and CO2 extinguishing systems Recent advances in fire resistance design Addition of new chapters on industrial fire protection including vapor clouds effects of thermal radiation on people BLEVEs dust explosions and gas and vapor explosions New chapters on fire load density curtain walls wildland fires and vehicle tunnels Essential reference appendices on conversion factors thermophysical property data fuel properties and combustion data configuration factors and piping properties Three volume set not available separately

The Aviation Fire Officer Reference Eric J. Russell, The Aviation Fire Officer Reference by Eric J Russell equips current and aspiring ARFF officers with leadership strategies hazard response tactics and guidance aligned with FAA NFPA ICAO and DoD standards **Field Manuals** United States. War Department, 1978-06-10 *Aircraft Rescue and Fire Fighting* Lynne Murnane, Tony Peters, 2015 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 *Over 200 U.S. Department of Energy Manuals Combined: CLASSICAL PHYSICS; ELECTRICAL SCIENCE; THERMODYNAMICS, HEAT TRANSFER AND FLUID FUNDAMENTALS; INSTRUMENTATION AND CONTROL; MATHEMATICS; CHEMISTRY; ENGINEERING SYMBIOLOGY; MATERIAL SCIENCE;*

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Energy Work And Heat Thermodynamic Systems And Processes Change Of Phase Property Diagrams And Steam Tables First Law Of Thermodynamics Second Law Of Thermodynamics Compression Processes Heat Transfer Terminology Conduction Heat Transfer Convection Heat Transfer Radiant Heat Transfer Heat Exchangers Boiling Heat Transfer Heat Generation Decay Heat Continuity Equation Laminar And Turbulent Flow Bernoulli's Equation Head Loss Natural Circulation Two Phase Fluid Flow Centrifugal Pumps INSTRUMENTATION AND CONTROL The Instrumentation and Control Fundamentals Handbook includes information on temperature pressure flow and level detection systems position indication systems process control systems and radiation detection principles Resistance Temperature Detectors Rtds Thermocouples Functional Uses Of Temperature Detectors Temperature Detection Circuitry Pressure Detectors Pressure Detector Functional Uses Pressure Detection Circuitry Level Detectors Density Compensation Level Detection Circuitry Head Flow Meters Other Flow Meters Steam Flow Detection Flow Circuitry Synchro Equipment Switches Variable Output Devices Position Indication Circuitry Radiation Detection Terminology Radiation Types Gas Filled Detector Detector Voltage Proportional Counter Proportional Counter Circuitry Ionization Chamber Compensated Ion Chamber Electroscope Ionization Chamber Geiger Muller Detector Scintillation Counter Gamma Spectroscopy Miscellaneous Detectors Circuitry And Circuit Elements Source Range Nuclear Instrumentation Intermediate Range Nuclear Instrumentation Power Range Nuclear Instrumentation Principles Of Control Systems Control Loop Diagrams Two Position Control Systems Proportional Control Systems Reset Integral Control Systems Proportional Plus Reset Control Systems Proportional Plus Rate Control Systems Proportional Integral Derivative Control Systems Controllers Valve Actuators MATHEMATICS The Mathematics Fundamentals Handbook includes a review of introductory mathematics and the concepts and functional use of algebra geometry trigonometry and calculus Word problems equations calculations and practical exercises that require the use of each of the mathematical concepts are also presented Calculator Operations Four Basic Arithmetic Operations Averages Fractions Decimals Signed Numbers Significant Digits Percentages Exponents Scientific Notation Radicals Algebraic Laws Linear Equations Quadratic Equations Simultaneous Equations Word Problems Graphing Slopes Interpolation And Extrapolation Basic Concepts Of Geometry Shapes And Figures Of Plane Geometry Solid Geometric Figures Pythagorean Theorem Trigonometric Functions Radians Statistics Imaginary And Complex Numbers Matrices And Determinants Calculus CHEMISTRY The Chemistry Handbook includes information on the atomic structure of matter chemical bonding chemical equations chemical interactions involved with corrosion processes water chemistry control including the principles of water treatment the hazards of chemicals and gases and basic gaseous diffusion processes Characteristics Of Atoms The Periodic Table Chemical Bonding Chemical Equations Acids Bases Salts And Ph Converters Corrosion Theory General Corrosion Crud And Galvanic Corrosion Specialized Corrosion Effects Of Radiation On Water Chemistry Synthesis Chemistry Parameters Purpose Of Water Treatment Water Treatment Processes Dissolved Gases Suspended Solids And Ph Control Water Purity Corrosives Acids And

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Firefighter United States. Department of the Army,1978

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