Chapter 1: The History of the Fire Service (Essentials, Chapter 1)

This chapter covers the history of the fire service, the organization of the fire service, roles within the fire service, standard operating procedures, working with other organizations, and the roles and responsibilities of fire fighter I and II personnel.

Chapter 2: Fire Fighter Qualifications and Safety (Essentials, Chapters 1, 4)

This chapter discusses fire fighter qualifications, stresses fire fighter safety, personal protective equipment including SCBA, and skills needed to maintain a safe operating environment. Emphasis is placed on the need for each fire fighter to maintain his or her own safety and health during firefighting operations.

Chapter 3: Fire Service Communications (Essentials, Chapter 18)

This chapter follows the sequence that calls follow in a communications center. This chapter also discusses radio systems, radio communications, call taking, and record keeping. It addresses the use of computer in fire service communications and the methods for receiving emergency and non-emergency calls.

Chapter 4: Incident Management System (Essentials, Chapter 1)

This chapter discusses characteristics of the incident management system (IMS). It explains IMS terminology, the role of first arriving fire fighters, confirmation of command, and transfer of command. Material is presented to help new fire fighters understand their role in the incident command system.

Chapter 5: Fire Behavior (Essentials, Chapter 2)

This chapter describes the fire tetrahedron, chemistry of combustion, products of combustion, and heat transfer mechanisms. It also describes the characteristics of liquid fueled and gas fueled fires. The classes of fire, phases of fires, and characteristics of interior fires are also discussed.

Chapter 6: Building Construction (Essentials, Chapter 3)

This chapter that covers the impact of building occupancy and contents, building materials, types of construction, and building components. It also stresses the factors that relate to fire fighter safety.

Chapter 7: Portable Fire Extinguishers (Essentials, Chapter 5)
This chapter that covers portable fire extinguishers. It discusses the classes of fire, types of extinguishing agents, characteristics and use of portable fire extinguishers, and maintenance of these devices. It provides a complete discussion of the new “K” class of fire extinguishers.

Chapter 8: Fire Fighter Tools and Equipment (Essentials, Chapters 7, 8, 16)

This chapter stresses the practices required for the safe use of tools. It describes the different functions that tools perform. It also describes the tools needed during each phase of a fire fighting operation. The proper maintenance of each tool is also addressed.

Chapter 9: Ropes and Knots (Essentials, Chapter 6)

This chapter covers the information on ropes and knots that is required by NFPA 1001. It ropes types of ropes, how to tie firefighting knots, and hoisting tools.

Chapter 10: Response and Size-Up

This chapter that covers considerations of response and size-up during response, arrival at the scene, and actual size-up. It explains the priorities during each phase of the incident action plan.

Chapter 11: Forcible Entry (Essentials, Chapter 8)

This chapter covers forcible entry tools and discusses methods for gaining forcible entry through doors, windows, and walls. It also covers gaining entry through locked openings.

Chapter 12: Ladders (Essentials, Chapter 9)

This chapter covers the selection, use and maintenance of ground ladders. It also includes newer products such as the Fresno ladder. The chapter includes a discussion of aerial ladder apparatus. It also stresses the need for teamwork and safety when using ladders.

Chapter 13: Search and Rescue (Essentials, Chapter 7)

This chapter discusses search and rescue at fire scenes. It stresses the importance of coordinating search and rescue with other fire suppression activities. It addresses safe search techniques and safe rescue techniques. It emphasizes the benefits of thermal imaging devices for search and rescue.

Chapter 14: Ventilation (Essentials, Chapter 10)

This chapter describes the importance of ventilation and the techniques needed to achieve horizontal and vertical ventilation.

Chapter 15: Water Supply (Essentials, Chapter 11)
This chapter discusses water supply. It covers municipal water systems, fire hydrants, and rural water supplies.

**Chapter 16: Fire Hose, Nozzles, Streams, and Foam (Essentials, Chapters 12, 13)**

This chapter covers fire hydraulics, fire hoses, hose maintenance and inspection, hose appliances, fire hose evolutions, nozzles, and the use of foam.

**Chapter 17: Fire Fighter Survival (Essentials, Chapter 7)**

The chapter explains the importance of balancing the risk versus benefit during emergency situations. It stresses safe operating procedures and the importance of preventing life threatening situations. It covers fire fighter survival techniques and stresses the need for rehabilitation and critical incident management.

**Chapter 18: Salvage and Overhaul (Essentials, Chapter 16)**

This chapter covers salvage, overhaul, and lighting. This chapter stresses the importance of safety during salvage and overhaul, and emphasizes the importance of adequate lighting during emergency operations.

**Chapter 19: Fire Fighter Rehabilitation**

This chapter covers fire fighter rehabilitation. This chapter describes the importance of rehabilitation and the types of incidents that require it. It stresses the need for fire fighters to take personal responsibility for rehabilitation.

**Chapter 20: Wildland and Ground Fires (Essentials, Chapter 14)**

This chapter covers wildland and ground fires. It discusses the relationship of the fire triangle, weather, and topography to wildland fires. Methods of extinguishment, priorities of attack, and the challenge of the wildland urban interface are described.

**Chapter 21: Fire Suppression (Essentials, Chapter 14)**

This chapter explains offensive versus defensive operations, operating hose lines, protecting exposures, fighting vehicle fires, fighting flammable liquid fires, fighting gas cylinder fires, and fighting fires involving electricity.

**Chapter 22: Preincident Planning (Essentials, Chapter 19)**

This chapter describes preincident surveys, tactical considerations, occupancy considerations, and special hazards that should be recognized during preincident planning.
Chapter 23: Fire and Emergency Medical Care

This chapter that explains the levels of EMS service provided, the levels of EMS training, the types of EMS delivery systems, and the interaction between EMS providers and fire fighters.

Chapter 24: Emergency Medical Care

This chapter presents the minimum emergency medical care procedures for: infection control, CPR, bleeding control, and shock management that are prerequisite skills for fire fighter I and II. The material on CPR meets the current standards of the American Heart Association. It also covers mass-casualty and triage.

Chapter 25: Vehicle Rescue and Extrication (Essentials, Chapter 7)

This chapter covers vehicle rescue and extrication. It describes vehicle anatomy and stresses fire fighter and victim safety.

Chapter 26: Assisting Special Rescue Teams (Essentials, Chapter 7)

This chapter provides information needed by beginning fire fighters to assist special rescue teams working with fire department personnel. This chapter outlines the steps of a rescue. It addresses confined space rescue, rope rescue, trench and excavation collapse, structural collapse, water and ice rescue, and hazardous material incidents.

Chapter 27: Hazardous Materials: Overview

This chapter provides an overview of hazardous materials and the fire fighter’s role in hazardous materials incidents.

Chapter 28: Hazardous Materials: Properties and Effects

This chapter discusses the behavior of hazardous materials.

Chapter 29: Hazardous Materials: Recognizing and Identifying the Hazards

This chapter covers how to recognize and identify hazardous materials safely.

Chapter 30: Hazardous Materials: Implementing a Response

This chapter covers how to begin handling a hazardous materials incident.

Chapter 31: Hazardous Materials: Scene Safety and Control

This chapter covers how fire fighters can remain safe while ensuring the well-being of citizens and controlling the hazardous materials scene.
Chapter 32: Hazardous Materials: Response Priorities and Actions

This chapter covers the actions that can be taken at a hazardous materials scene.

Chapter 33: Hazardous Materials: Decontamination

This chapter covers the decontamination process of a hazardous materials incident.

Chapter 34: Terrorism Awareness

This chapter covers terrorist threats, explosives and incendiary devices, chemical agents, biologic agents, and radiological agents.

Chapter 35: Fire Prevention and Public Education (Essentials, Chapter 19)

This chapter covers assisting in a fire safety survey of a residence and how to conduct a fire station tour.

Chapter 36: Fire Detection, Protection, and Suppression Systems (Essentials, Chapter 15)

This chapter covers fire alarm systems, fire detection systems, and fire suppression systems.

Chapter 37: Fire Cause Determination (Essentials, Chapter 17)

This chapter describes causes of fires, determination of the cause, and observations and actions fire fighters should make during fire ground operations.