



SECTION TWO
SYLLABUS AND BIBLIOGRAPHY
FOR THE
SUB-OFFICERS'
WRITTEN EXAMINATION

For The Years 2005 and 2006

Issued October 2004

INTRODUCTION

This Study Guide specifies the syllabus for the Sub Officer written examination and identifies the bibliography that the Fire Services Examinations Board uses to set the examination.

ISSUE

- (a) The Study Guide is issued each year and is clearly marked on the front cover with the examination year to which it applies.
- (b) Candidates should ensure that they are using the appropriate edition.
- (c) It is possible that new Fire Service Manuals etc are issued after the publication of the Study Guide. This does not matter, as the questions in the written examination will only be based on technical or reference material that has been published nine months prior to the examination. The Study Guide is therefore the definitive source of your study for the written examination.

BIBLIOGRAPHY

In The Study Guide and Syllabus, reference is made to Volumes; Parts; Chapters and Sections etc. Candidates should note that the study required relates to the bibliography as specifically detailed.

Examples:

- (a) Where a part is specified,(but with no Chapter quoted), the whole of that Part forms the bibliography for study.
- (b) Where a Chapter is specified, followed by a Section number or letter, then only that Section forms the bibliography for study.

Paper:
Operations

Subject Area:
Operational Procedures and Incident Command

Analyse and Evaluate an Incident

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 2101 - Analyse and Evaluate an Incident

BA, Command and Control - Stage 2
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Publication: Fire Service Technical Bulletin
Book: Breathing Apparatus
Fire Service Bulletin 1 /1997 Chapter 1 (CNP 10-13) - Control Procedures
Fire Service Bulletin 1 /1997 Chapter 1 (CNP6-7) - Control Procedures
Fire Service Bulletin 1 /1997 Chapter 2 (CMP 6B) - Command Procedures
Fire Service Bulletin 1 /1997 Chapter 3 (EP7) - Equipment Procedures
Fire Service Bulletin 1 /1997 Chapter AM 1-3 and 5 - Aides Memoire

Incident Risk Assessment

Publication: Fire Service Manual Volume 2 - Operations
Book: Incident Command
Chapter 3 - Incident Risk Assessment

Incident Command

Publication: Fire Service Manual Volume 2 - Operations
Book: Incident Command
Chapter 1 – Introduction to the Incident Command System
Chapter 2 – Organisation on the Incident Ground
Appendix 2 – Roles of the other Emergency Services

Pollution

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 2102 - Pollution

Victim Support

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 2103 - Victim Support

Paper:
Operations

Subject Area:
Firefighting & Rescue Incidents

Incidents Involving Railways

Publication: Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment
 Section 4.2 - Incidents Involving Railways
 Revised DCOL & DFML 8/99

Agricultural and Industrial Silos
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Publication: Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment
 Section 2.4 - Rescues
 From Silos

Animals & Other Miscellaneous Rescues
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Publication: Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment
 Section 2.9 - Rescue
 Of Animals

Publication: Manual of Firemanship
Book: Book 12 - Practical Firemanship
 Part 1 Chapter 5 Section 9 - Miscellaneous Rescues
 Animals

Basements, Underground Structures and Tunnels
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Publication: Manual of Firemanship
Book: Book 11 - Practical Firemanship
 Part 1 Chapter 5 Section 7 - Various Types of Fire
 Basement and Underground Building Fires

Publication: Fire Service Manual Volume 2 - Operations
Book: Compartment Fires & Tactical Ventilation
 Part 2 Chapter 10 - Basements, Underground Structures & Tunnels

Collapsed Structures

Publication: Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment
 Section 2.6 - Rescues
 From Collapsed Structures

Confined Spaces

Publication: Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment
 Section 5.5 - Generic Hazards
 Confined Spaces

Fires in Buildings

Publication: Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment
 Section 3.1 - Fighting Fires
 In Buildings

Paper:
Operations

Subject Area:
Firefighting & Rescue Incidents

Flammable Liquids

Publication: Fire Service Manual Volume 2 - Operations
Book: Firefighting Foam

- Chapter 5 - Operational Use of Foam on Class B Liquid Fuels
- Chapter 6 - Practical scenarios
- Chapter 7 - Storage tank fires
- Chapter 8 - Logistics of dealing with large storage tank fires

Incidents on Roads

Publication: Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment

- Section 4.1 - Incidents Involving Road

LPG and other Fuels

Publication: Fire Service Manual Volume 2 - Operations
Book: Petrochemical Incidents

- Chapter 8.1 - Liquefied Petroleum Gas Characteristics & Physical Properties
- Chapter 8.10.4 - Liquefied Petroleum Gas Cylinders
- Chapter 8.2 - Liquefied Petroleum Gas Evaporation and Spill
- Chapter 8.3 - Liquefied Petroleum Gas How Explosions Develop
- Chapter 8.6 - Liquefied Petroleum Gas Fire Fighting & Gas Cloud Control

Sewers

Publication: Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment

- Section 2.3 - Rescues From Sewers

Publication: Manual of Firemanship
Book: Book 12 - Practical Firemanship

- Part 1 Chapter 5 Section 1 - Miscellaneous Rescues Sewers

Tower Cranes etc

Publication: Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment

- Section 2.7 - Rescues From Height

Trenches & Pits

Publication: Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment

- Section 2.5 - Rescues From Trenches and Pits

Paper:
Operations

Subject Area:
Science and Firefighting

Combustion

Publication: Fire Service Manual Volume 1 - Technology Equipment & Media
Book: Physics and Chemistry for Fire-fighters
Chapter 7.6.3 - 7.8.7 - Combustion

Hydrants and Water Supplies

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 2104 - Hydrants and Water Supplies

Physics and Chemistry

Publication: Fire Service Manual Volume 1 - Technology Equipment & Media
Book: Physics and Chemistry for Fire-fighters
Chapter 01 - Physical Properties of Matter

Water Relaying

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 2105 - Water Relaying

Paper:
Fire Safety, Education & Enforcement

Subject Area:
Fire Defence & Alerting Systems

Fire Detection, Alarms & Transmission Systems
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Publication: Fire Service Manual Volume 1 - Technology Equipment & Media

Book: Communications & Mobilising

Chapter 6 - Automatic Fire Alarm Transmission Systems

Publication: Fire Service Examinations Board

Book: Study Note

Study Note 2201 - Fire Detection, Alarms & Transmission Systems

Fire Extinguishing Systems

Publication: Fire Service Examinations Board

Book: Study Note

Study Note 2202 - Fire Extinguishing Systems

Paper:
Fire Safety, Education & Enforcement

Subject Area:
Fire Investigation

Arson Signs and Motives

Publication: Manual of Firemanship
Book: Book 12 - Practical Firemanship
Part 5 Chapter 15 - Arson

Non - Accidental Fires

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 2203 - Non - Accidental Fires

Principle Causes of Fire

Publication: Manual of Firemanship
Book: Book 12 - Practical Firemanship
Part 5 Chapter 14 - Fire Investigation

Paper:
Human Resource Management

Subject Area:
Employment

Absence through Sickness

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 2301 - Absence through Sickness

Procedure Relating to Performance
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Publication: Fire Service Examinations Board
Book: Study Note
Study Note 2303 - Procedure Relating to Performance

Paper:
Human Resource Management

Subject Area:
Training and Development

Assessment in the Workplace

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 2304 - Assessment in the Workplace

Operational Training

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 2305 - Operational Training

Scenario Based Training

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 2306 - Scenario Based Training

Paper:
Human Resource Management

Subject Area:
Health, Safety & Welfare

Accident Reporting and Investigation

Publication: Fire Service Examinations Board

Book: Study Note

Study Note 2307 - Accident Reporting and Investigation

Control of Substances Hazardous to Health
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Publication: Fire Service Examinations Board

Book: Study Note

Study Note 2308 - The Control of Substances Hazardous to Health Regulations 1999

Health and Safety in the Workplace

Publication: Fire Service Examinations Board

Book: Study Note

Study Note 2309 - The Workplace (Health, Safety & Welfare) Regulations 1992

Noise at Work

Publication: Fire Service Examinations Board

Book: Study Note

Study Note 2310 - The Noise at Work Regulations 1989

Work Related Sickness

Publication: Fire Service Examinations Board

Book: Study Note

Study Note 2311 - Work Related Sickness

Paper:
Business Administration

Subject Area:
Key Skills

Application of Number

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 2401 - Application of Number