



SECTION TWO
SYLLABUS AND BIBLIOGRAPHY
FOR THE
STATION OFFICERS'
WRITTEN EXAMINATION

For The Years September 2005 and 2006

Issued March 2005

INTRODUCTION

This Study Guide specifies the syllabus for the Station Officers' 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

BA, Command and Control

Publication: Fire Service Technical Bulletin
Book: Breathing Apparatus
Fire Service Bulletin 1 /97 - Command and Control Procedures

Civil Disturbances

Publication: Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment
Section 5.6 - Generic Hazards
Civil Disturbances

Incident Command

Publication: Fire Service Manual Volume 2 - Operations
Book: Incident Command

Major Incidents

Publication: Manual of Firemanship
Book: Book 12 - Practical Firemanship
Part 1 Chapter 4 - Major Disasters

Paper:
Operations

Subject Area:
Firefighting & Rescue Incidents

Aircraft

- Publication:** Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment
Section 4.3 - Incidents Involving Transport Systems
Aircraft
- Publication:** Fire Service Manual Volume 2 - Operations
Book: Aircraft Incidents

Biological Hazards

- Publication:** Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment
Section 5.4 - Generic Hazards
Biological
- Publication:** Manual of Firemanship
Book: Book 12 - Practical Firemanship
Part 2 Chapter 9 Section 3 - Other Decontamination
Biological Hazards

Chemical Incidents

- Publication:** Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment
Section 5.3 - Generic Hazards
Chemical
- Publication:** Manual of Firemanship
Book: Book 12 - Practical Firemanship
Part 2 Chapter 8 - Chemical Decontamination
- Publication:** Fire Service Examinations Board
Book: Study Note
Study Note 3101 - Hazard Identification

Electricity, Generation & Hazards
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- Publication:** Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment
Section 5.1 - Generic Hazards
Electricity
- Publication:** Fire Service Manual Volume 2 - Operations
Book: Electricity
Chapter 1- 5 – Electricity

Explosives

- Publication:** Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment
Section 5.7 - Generic Hazards
Explosives

Paper:
Operations

Subject Area:
Firefighting & Rescue Incidents

High Rise Buildings, Complexes, Malls
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- Publication:** Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment
 Section 3.2 - Fighting Fires
 In High Rise Buildings
 Section 3.6 - Fighting Fires
 Using PPV
- Publication:** Fire Service Manual Volume 2 - Operations
Book: Compartment Fires & Tactical Ventilation
 Part 2 Chapter 11 - High Rise Buildings and Malls
 Part 2 Chapter 5 to 8 - Positive Pressure and Forced Ventilation

Incidents in Premises Involving Radioactive Substances

- Publication:** Fire Service Examinations Board
Book: Study Note
 Study Note 3102 - Incidents in Premises Involving Radioactive Substances

Incidents in Silos

- Publication:** Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment
 Section 5.5 - Generic Hazards
 Confined Spaces
 Section 2.4 - Rescues
 From Silos
- Publication:** Manual of Firemanship
Book: Part 6b - Practical Firemanship
 Chapter 1 Section 6J - Fires in Rural Areas
 Fires in Agricultural Silos
- Book:** Part 6c - Practical Firemanship
 Chapter 45 Section 6 Page 137 - 140 - Practical Firemanship
 Grain Silos

Isocyanates and Pesticides

- Publication:** Fire Service Examinations Board
Book: Study Note
 Study Note 3103 - Isocyanates Involved in Fire
 Study Note 3104 - Stored Pesticides Involved in Fire

Petrochemical Incidents

- Publication:** Fire Service Manual Volume 2 - Operations
Book: Firefighting Foam
 Chapter 7 - Storage tank fires
 Chapter 8 - Logistics of dealing with large storage tank fires
- Publication:** Fire Service Examinations Board
Book: Study Note
 Study Note 3107 - Petrochemical Incidents

Plastics

- Publication:** Manual of Firemanship
Book: Part 6c - Practical Firemanship
 Chapter 45 Section 10 - Practical Firemanship
 Fires in Plastics

Paper:
Operations

Subject Area:
Firefighting & Rescue Incidents

Public Entertainment Venues

Publication: Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment
Section 3.8 - Fighting Fires
In Public Entertainment Venues

Sandwich Panels

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3105 - Sandwich Panels

Secure Accommodation

Publication: Fire Service Guide To Health And Safety
Book: Volume 3 - Guide to Operational Risk Assessment
Section 3.9 - Fighting Fires
In Secure Accommodation

Tunnels and Underground

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3106 - Operational Incidents in Tunnels and Similar Structures

Paper:
Operations

Subject Area:
Science and Firefighting

Physics and Chemistry

Publication: Fire Service Manual Volume 1 - Technology Equipment & Media

Book: Physics and Chemistry for Fire-fighters

Chapter 04 - Thermal Expansion

Chapter 05 - Heat Transmission

Chapter 06 - Basis of Chemistry

Chapter 08 - Simple Organic Substances

Chapter 09 - Polymers

Chapter 10 - Other Combustable Solids

Paper:
Fire Safety, Education & Enforcement

Subject Area:
Fire Safety Legislation

Cautioning Suspects

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3201 - Cautioning Suspects

Safety Signs and Signals

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3203 - The Health and Safety (Safety Signs and Signals) Regulations 1996

Paper:
Fire Safety, Education & Enforcement

Subject Area:
Community Fire Safety

Planning for Fire Safety in the Community
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Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3206 - Planning for Fire Safety in the Community

Safety at Community Events

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3207 - Safety at Community Events

Paper:
Fire Safety, Education & Enforcement

Subject Area:
Fire Safety Risk Assessment

Access and Facilities for the Fire Service

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3208 - Access and Facilities for the Fire Service

Building Design

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3209 - Building Design and Structural Fire Precautions

Risk Assessment

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3210 - Principles of Fire Safety Risk Assessment

Paper:
Human Resource Management

Subject Area:
Employment

Contracts of Employment

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3301 - Contracts of Employment

Equality and Fairness at Work

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3302 – Equality and Fairness at Work

Law Relating to Trade Unions

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3305 - Law Relating to Trade Unions

Suspension from Duty

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3306 - Suspension from Duty

Paper:
Human Resource Management

Subject Area:
Training and Development

Scenario Based Training

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3308 - Scenario Based Training

The Planning and Implementation of Training
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Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3313 - The Planning and Implementation of Training

Training and Competence

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3307 - Training and Competence

Paper:
Human Resource Management

Subject Area:
Health, Safety & Welfare

Health & Safety Audit & Monitoring

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3309 - Health & Safety Audit & Monitoring

Health & Safety Enforcement Agencies

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3310 - Health & Safety Enforcement Agencies

Health and Safety Representatives and Committees

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3311 - Health and Safety Representatives and Committees

Management of Health & Safety at Work Regulations
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Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3314 – Management of Health & Safety at Work Regulations

Health & Safety Management

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3312 - Health & Safety Management

Accident Causation and Prevention
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Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3315 – Accident Causation and Prevention

Paper:
Business Administration

Subject Area:
Principles of Management

Business Planning and Forecasting
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Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3401 - Business Planning and Forecasting
Study Note 3402 - Standards of Fire Cover

Finance & Accounting

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3403 - Local Government Finance & Accounting

Management Systems

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3405 - Management Systems

Paper:
Business Administration

Subject Area:
Key Skills

In Tray Exercise

Publication: Fire Service Examinations Board
Book: Study Note
Study Note 3404 - In Tray Exercise