



SECTION TWO  
SYLLABUS AND BIBLIOGRAPHY  
FOR THE  
LEADING FIREFIGHTERS'  
WRITTEN EXAMINATION

For The Years 2005 and 2006

Issued October 2004

## INTRODUCTION

This Study Guide specifies the syllabus for the Leading Firefighter 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.

<b>Paper:</b>
Operations

<b>Subject Area:</b>
Fire Appliances, Equipment & Systems

<b>Aerial Appliances</b>
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**Publication:** Manual of Firemanship  
**Book:** Book 5 - Ladders & Appliances

Part 3 Chapter 04 Section 1, ,2b & c - Information on Turntable Ladders  
 Part 3 Chapter 10 Section 1 - Working with Turntable Ladders  
 Part 4 Chapter 11 Section 1 - Information on Hydraulic Platforms  
 Part 4 Chapter 13 Section 1 - Working with Hydraulic Platforms

<b>Breathing Apparatus and Ancillary Equipment</b>
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**Publication:** Fire Service Technical Bulletin  
**Book:** Breathing Apparatus

Fire Service Bulletin 1 /1997 - Appendix 3, 4, 6 and 9  
 Fire Service Bulletin 1 /1997 Chapter 3 (EP4) Section 1-6 - Equipment Procedures  
 Fire Service Bulletin 1 /1997 Chapter 3 (EP5) - Equipment Procedures

<b>Communication Terms &amp; Abbreviations</b>
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**Publication:** Fire Service Manual Volume 1 - Technology Equipment & Media  
**Book:** Communications & Mobilising

Chapter Glossary - Glossary  
 Communication Terms & Abbreviations

<b>Communications - Handling &amp; Format of Messages</b>
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**Publication:** Fire Service Manual Volume 4 - Fire Service Training  
**Book:** Foundation Training & Development Manual (formerly Training Manual)

Section Appendix 2 Page 10-15 - Fireground Communications  
 Standard Messages  
 Section Appendix 2 Page 2 & 3 - Fireground Communications  
 General Hints for Radio Users

<b>Communications - Personal Radio</b>
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**Publication:** Fire Service Manual Volume 1 - Technology Equipment & Media  
**Book:** Communications & Mobilising

Chapter 10.3 - Radio

<b>Communications - Potential Hazards of Using Radio Equipment</b>
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**Publication:** Fire Service Manual Volume 1 - Technology Equipment & Media  
**Book:** Communications & Mobilising

Chapter 15 - Potential Hazards of Using Radio Equipment

<b>Paper:</b>
Operations

<b>Subject Area:</b>
Fire Appliances, Equipment & Systems

<b>Foam and Foam Making Equipment</b>
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**Publication:** Fire Service Manual Volume 2 - Operations  
**Book:** Firefighting Foam

- Chapter 1 - Introduction to Foam
- Chapter 2 - Production of Finished Foam
- Chapter 3 - Categories of Fire & Firefighting Foams
- Chapter 4 - Recommended Minimum Application Rates
- Chapter 5 - Operational Use of Foam on Class B Liquid Fuels

<b>Protective Clothing</b>
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**Publication:** Fire Service Technical Bulletin  
**Book:** Breathing Apparatus

- Fire Service Bulletin 1 /1997 Chapter 4 (SP4) - Special Procedures

<b>Paper:</b>
Operations

<b>Subject Area:</b>
Operational Procedures and Incident Command

<b>BA, Command and Control - Stage 1</b>
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**Publication:** Fire Service Technical Bulletin  
**Book:** Breathing Apparatus

- Fire Service Bulletin 1 /1997 Chapter 1 (CNP 1-5) - Control Procedures
- Fire Service Bulletin 1 /1997 Chapter 1 (CNP 10-13) - Control Procedures
- Fire Service Bulletin 1 /1997 Chapter 2 (CMP 1-5) - Command Procedures
- Fire Service Bulletin 1 /1997 Chapter 4 (SP3) - Special Procedures
- Fire Service Bulletin 1 /1997 Chapter AM 1-2 and 5 - Aides Memoire

<b>Causes and Signs of Collapse</b>
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**Publication:** Manual of Firemanship  
**Book:** Book 11 - Practical Firemanship

- Part 1 Chapter 4 Section 6 - Fighting the Fire Collapse of the Building

<b>Incident Risk Assessment</b>
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**Publication:** Fire Service Manual Volume 2 - Operations  
**Book:** Incident Command

- Chapter 3 - Incident Risk Assessment
- Sections 3.1 - 3.4 and 3.12 - 3.14

<b>Emergency Evacuation Procedures</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note

- Study Note 1101 - Emergency Evacuation Procedures

<b>Finalising the Incident</b>
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**Publication:** Manual of Firemanship  
**Book:** Book 12 - Practical Firemanship

- Part 5 Chapter 13 - The End of the Incident

<b>Incident Command</b>
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**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
- Chapter Glossary of Terms : Incident Command

Paper:
Operations

Subject Area:
Operational Procedures and Incident Command

<b>Initial Action, Alarms and Systems</b>
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**Publication:** Fire Service Guide To Health And Safety  
**Book:** Volume 3 - Guide to Operational Risk Assessment  
                   Section 1.3 - Responding to an Emergency  
                   Arriving and Getting to Work

**Publication:** Manual of Firemanship  
**Book:** Book 11 - Practical Firemanship  
                   Part 1 Chapter 2 Section 1 - Arrival at an Incident  
                   Part 3 Chapter 8 Section 1-4a - Control at a fire

<b>Powers to Extinguish Fires</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
                   Study Note 1102 - Powers to Extinguish Fires

<b>Responding to an Incident</b>
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**Publication:** Fire Service Guide To Health And Safety  
**Book:** Volume 3 - Guide to Operational Risk Assessment  
                   Section 1.2 - Responding to an Emergency  
                   Proceeding to an Incident

**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
                   Study Note 1103 - Proceeding to an Incident

<b>Roles of Other Emergency Services</b>
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**Publication:** Fire Service Manual Volume 2 - Operations  
**Book:** Incident Command  
                   Appendix 2 – Roles of the Other Emergency Services

<b>Paper:</b>
Operations

<b>Subject Area:</b>
Firefighting & Rescue Incidents

<b>Asbestos</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1105 - Asbestos

<b>Domestic Property &amp; Two Storey Buildings etc</b>
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**Publication:** Fire Service Manual Volume 2 - Operations  
**Book:** Compartment Fires & Tactical Ventilation  
Part 2 Chapter 9 - Ventilation Scenarios

<b>Dust Explosions</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1106 - Dust Explosions

<b>Electrical Fires</b>
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**Publication:** Fire Service Manual Volume 2 - Operations  
**Book:** Electricity  
Chapter 4 - Electrical Hazards and Safeguards  
Chapter 5 - Fire Fighting Procedures

<b>Fires in Rural Areas</b>
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**Publication:** Fire Service Guide To Health And Safety  
**Book:** Volume 3 - Guide to Operational Risk Assessment  
Section 3.4 - Fighting Fires  
In Rural Areas  
**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1107 - Rural Firefighting - Use of Appliances

<b>Flooding</b>
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**Publication:** Fire Service Guide To Health And Safety  
**Book:** Volume 3 - Guide to Operational Risk Assessment  
Section 2.8 - Rescues  
Involving flooding

<b>Hazardous Materials, Recognition &amp; Codes</b>
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**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 1111 - The Identification of Dangerous Substances

<b>Incidents in Premises Involving Radioactive Substances</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1108 - Incidents in Premises Involving Radioactive Substances

Paper:
Operations

Subject Area:
Firefighting & Rescue Incidents

<b>Lifts and Escalators</b>
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**Publication:** Fire Service Guide To Health And Safety  
**Book:** Volume 3 - Guide to Operational Risk Assessment  
                   Section 2.2 - Rescues  
                   From Lifts and Escalators

**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
                   Study Note 1109 - Incidents Involving Lifts

<b>Marine Craft</b>
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**Publication:** Fire Service Manual Volume 2 - Operations  
**Book:** Marine Incidents  
                   Chapter 8 - Inland Waterways  
                   Chapter 9 - Other Marine Risks

<b>Refuse Fires</b>
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**Publication:** Fire Service Guide To Health And Safety  
**Book:** Volume 3 - Guide to Operational Risk Assessment  
                   Section 3.7 - Fighting Fires  
                   In Refuse

<b>Rescues from Ice and Unstable Ground</b>
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**Publication:** Fire Service Guide To Health And Safety  
**Book:** Volume 3 - Guide to Operational Risk Assessment  
                   Section 2.1 - Rescues  
                   From Ice and Unstable Ground

<b>Safe Work in Confined Spaces</b>
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**Publication:** Fire Service Guide To Health And Safety  
**Book:** Volume 3 - Guide to Operational Risk Assessment  
                   Section 5.5 - Generic Hazards  
                   Confined Spaces

Paper:
Operations

Subject Area:
Science and Firefighting

<b>Fighting the Fire &amp; Tactical Ventilation</b>
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**Publication:** Fire Service Manual Volume 2 - Operations  
**Book:** Compartment Fires & Tactical Ventilation  
     Part 2 Chapter 1 - Introduction to Ventilation  
     Part 2 Chapter 2 - Assessing the Need for Ventilation  
     Part 2 Chapter 3 - Horizontal Ventilation  
     Part 2 Chapter 4 - Vertical Ventilation

<b>Fire Spread and the Behaviour of Smoke</b>
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**Publication:** Manual of Firemanship  
**Book:** Book 11 - Practical Firemanship  
     Part 1 Chapter 2 Section 2 - Action on Arrival  
     Searching for the Fire  
**Publication:** Fire Service Manual Volume 2 - Operations  
**Book:** Compartment Fires & Tactical Ventilation  
     Part 1 Chapter 1 - The Fire

<b>Flashover and Backdraught</b>
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**Publication:** Fire Service Guide To Health And Safety  
**Book:** Volume 3 - Guide to Operational Risk Assessment  
     Section 5.8 - Generic Hazards  
     Flashover and Backdraught  
**Publication:** Fire Service Manual Volume 2 - Operations  
**Book:** Compartment Fires & Tactical Ventilation  
     Part 1 Chapter 2 - Backdraughts  
     Part 1 Chapter 3 and 4 - Flashovers

<b>Heat Transmission</b>
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**Publication:** Fire Service Manual Volume 1 - Technology Equipment & Media  
**Book:** Physics and Chemistry for Fire-fighters  
     Chapter 05 - Heat Transmission

<b>Respiration</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
     Study Note 1110 - Respiration

<b>Paper:</b>
Fire Safety, Education & Enforcement

<b>Subject Area:</b>
Community Fire Safety

<b>Fire Safety in the Home</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1203 - Fire Safety in the Home

<b>Unnecessary Fire Calls</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1204 - Unnecessary Fire Calls

<b>Paper:</b>
Human Resource Management

<b>Subject Area:</b>
Employment

<b>Employment Rights - Awareness</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1301 - Employment Rights - Awareness

<b>Equal Opportunities</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1302 - Equal Opportunities

<b>Informal Discipline</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1304 - Informal Discipline

<b>Paper:</b>
Human Resource Management

<b>Subject Area:</b>
Training and Development

<b>Leadership, Motivation &amp; Communication</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1305 - Leadership, Motivation & Communication

<b>Operational Training</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1307 - Operational Training

<b>Performance Standards</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1306 - Performance Standards

<b>Paper:</b>
Human Resource Management

<b>Subject Area:</b>
Health, Safety & Welfare

<b>Health &amp; Safety at Work</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1308 - The Health & Safety at Work etc Act 1974 - Awareness

<b>Control of Substances Hazardous to Health</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1314 - COSHH

<b>Dynamic Management of Risk</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1315 - Dynamic Management of Risk

<b>Manual Handling</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1310 - The Manual Handling Operations Regulations 1992

<b>Personal Protective Equipment at Work</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1311 - The Personal Protective Equipment at Work Regulations 1992

<b>Risk Assessment</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1312 - Risk Assessment and Control Measures

<b>Safe Person Concept</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1313 - The Safe Person Concept

<b>Paper:</b>
Business Administration

<b>Subject Area:</b>
Key Skills - Written Communications

<b>Written Communications</b>
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**Publication:** Fire Service Examinations Board  
**Book:** Study Note  
Study Note 1401 - Written Communications