



THE INSTITUTION OF FIRE ENGINEERS
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IFE Examinations - Recommended Reading List

Candidates should be aware that this reading list is **advisory** rather than definitive and they will need to consider the items it contains selectively. Candidates should use the published syllabus for the examination as their guide in deciding what reading materials they need to help them prepare for the examination. The IFE recommends that all candidates should read widely in order to extend the depth and breadth of their knowledge and understanding.

The Institution does not recommend that candidates should buy every resource listed for each exam they take. In addition, it should not be inferred that other resources are unsuitable because they are omitted from the reading list. Candidates are also advised to review past examination papers and sample questions. Past papers, together with the associated examiner reports on the papers, can be downloaded, free of charge, from the IFE website.

The IFE has applied the following criteria in determining which resources should be included on this recommended reading list:

- the resource provides information which will be of benefit to the candidate in their professional life, providing depth and breadth of understanding;
- the resource contains some information that will be relevant to part of the specified examination unit;
- the resource is recognised by industry professionals as providing valuable information.

Those books with a **yellow background** can be supplied directly by the IFE. To order direct, please follow this hyperlink:

<http://www.ife.org.uk/Online-Shop>

Please note that the Fire Service Manuals for Operations and the Generic Risk Assessments have been replaced with National Operational Guidance (NOG) and Scenarios. The NOG and Scenarios are available online and can be downloaded free of charge. Please see <https://www.ukfrs.com/guidance> for further information. Published guidance is referenced in the recommended reading list that follows.

Updated: August 2019

Level 2 Certificate and Level 3 Certificate Examinations

Book Title	Publisher	Author	Level 2 Certificate	L3C Unit 1	L3C Unit 2	L3C Unit 3	L3C Unit 4
Elementary Fire Engineering Handbook (IFE 50) Version issued 2017	IFE	G Almond et al.	✓	✓	✓	✓	
Formula Booklet: http://www.ife.org.uk/Preparing-for-Examinations	IFE Website (Free download)	Richard Fowler		✓			
Fire Dynamics for Firefighters	Pavilion	Ben Walker	✓	✓	✓		
Foundation for Hazardous Materials, Section 1 https://www.ukfrs.com/guidance/knowledge-base	Online NOG Knowledge Base	National Operational Guidance Programme	✓	✓			
The Foundation for Incident Command: https://www.ukfrs.com/guidance/knowledge-base	Online NOG Knowledge Base	National Operational Guidance Programme	✓		✓		
Foundation for Breathing Apparatus https://www.ukfrs.com/guidance/knowledge-base	Online NOG Knowledge Base	National Operational Guidance Programme			✓		
CFOA Protocol for the Reduction of False Alarms and Unwanted Fire Signals: http://www.cfoa.org.uk/10863#element0?highlight=unwanted	CFOA					✓	
Fire Safety Risk Assessment - Sleeping Accommodation (Section 4 and Appendix D Glossary of terms) https://www.gov.uk/government/publications/fire-safety-risk-assessment-sleeping-accommodation	UK Gov					✓	

Fire safety risk assessment: means of escape for disabled people https://www.gov.uk/government/publications/	UK Gov					✓	
Management and Administration: http://www.ife.org.uk/Preparing-for-Examinations	IFE Website (Free download)	Glenys Southworth					✓

Level 3 Diploma and Level 4 Certificate Examinations

Fire Engineering Science

Book Title	Publisher	Author	L3 Dip	L4 Cert
Fire Engineering Science Self Study Guide (IFE 81)	IFE	IFE in association with Stevenson College Edinburgh	✓	✓
The Foundation for Hazardous Materials (section1) https://www.ukfrs.com/guidance/knowledge-base	Online NOG Knowledge Base	National Operational Guidance Programme	✓	✓
The Chemistry of Combustion.	Bibliolife	J. Newton Friend	✓	✓
Fire Service Manual Volume 1: Fire Service Technology, Equipment & Media: Physics and Chemistry for Firefighters (IFE 33)	TSO	HM Fire Service Inspectorate	✓	✓
Fire Service Manuals Volume 1: Fire Service Technology, Equipment and Media: Hydraulics, Pumps and Water Supplies. (IFE 36)	TSO	HM Fire Service Inspectorate	✓	✓
Introduction to Fire Dynamics	Wiley and Sons	Drysdale	✓	✓
Sax's Handbook of Dangerous Substances. (Regularly updated: recommend the use of reference copies rather than purchase)		N Sax & R Lewis	✓	✓

Croner's Dangerous Substances. (Regularly updated: recommend the use of reference copies rather than purchase)		Wolters Kluwer	✓	✓
Fundamentals of Physics	Wiley & Sons	Halliday et al	✓	✓
Formula Booklet - http://www.ife.org.uk/Preparing-for-Examinations	IFE Website (Free download)	Richard Fowler	✓	✓
Fire Dynamics for Firefighters	Pavilion		✓	
Power Correction Factors – Article in Wiring Matters http://electrical.theiet.org/wiring-matters/2006.cfm	Wiring Matters Issue 18 Spring 2006	Institution of Engineering and Technology		✓

Leadership & Management

Book Title	Publisher	Author	L3 Dip	L4 Cert
Handbook of Management and Leadership	Thorogood	John Adair	✓	✓
A Handbook of Human Resource Management Practice	Kogan Page	Michael Armstrong	✓	✓
Management Theory and Practice	Thomson Learning	G A Cole and P Kelly	✓	✓
"Leadership and Management" http://www.ife.org.uk/Preparing-for-Examinations	IFE website (Free download)	Glenys Southworth	✓	✓

Aviation Fire Operations

Book Title	Publisher	Author	L3 Dip	L4 Cert
Heliport Manual Doc 9261 Part 1. 3rd Edition.		ICAO	✓	✓
Fire Service Manual Volume 2: Aircraft Incidents (IFE 41)	TSO		✓	✓
Fire Service Manual Volume 1 Fire Service Technology, Equipment and Media Firefighting Foam – Technical (IFE 35)	TSO		✓	✓
Fire Service Manual Volume 2 Fire Service Operations - Firefighting Foam (IFE 43)	TSO		✓	✓
Fire and Rescue Manual Volume 2 Fire Service Operations - Environmental Protection (IFE 54)	TSO		✓	✓
CAP 168 http://publicapps.caa.co.uk/modalapplication.aspx?appid=11&mode=detail&id=6114	CAA		✓	✓
CAP 699 http://publicapps.caa.co.uk/modalapplication.aspx?appid=11&mode=detail&id=235	CAA		✓	✓
CAP 748 http://publicapps.caa.co.uk/modalapplication.aspx?appid=11&mode=detail&id=1357	CAA		✓	✓
CAP 789 Requirements and Guidance Materials for Operators https://publicapps.caa.co.uk/docs/33/CAP%20789.pdf	CAA		✓	✓
Fire and Rescue Service Operational Guidance: Generic Risk Assessments – GRA 4.3	Gov.UK	Chief Fire & Rescue Adviser	✓	✓
Fire and Rescue Service Operational Guidance: Aircraft Incidents	Gov.UK	Chief Fire & Rescue Adviser	✓	✓
Airport Services Manual – Doc 9137 Part 1 Rescue & Firefighting	International Civil Aviation Authority		✓	✓
Airport Services Manual - Doc 9137 Part 7 Airport Emergency Planning	International Civil Aviation Authority		✓	✓

Fire Investigation

Book Title	Publisher	Author	L3 Dip	L4 Cert
Kirks Fire Investigation	Brady Fire	John D De Haan and David J Ilove	✓	✓
NFPA 921: Guide For Fire And Explosion Investigations	NFPA (National Fire Protection Agency)			✓
A Guide to Fire Investigation (IFE 02)	IFE	Patrick G Cox	✓	✓

Fire Service Operations and Incident Command

Resource Title	Publisher	Author	L3 Dip	L4 Cert
The Foundation for Incident Command https://www.ukfrs.com/guidance/knowledge-basecommand	Online	National Operational Guidance Programme	✓	✓
NOG – Incident Command https://www.ukfrs.com/guidance/incident-command	Online	National Operational Guidance Programme	✓	✓
Operations https://www.ukfrs.com/guidance/operations	Online	National Operational Guidance Programme	✓	✓
Scenario – All Incident Actions https://www.ukfrs.com/scenarios				
Foundation for Breathing Apparatus https://www.ukfrs.com/guidance/knowledge-base	Online	National Operational Guidance Programme	✓	✓
Fire and Firefighting https://www.ukfrs.com/guidance/fires-and-firefighting	Online	National Operational Guidance Programme	✓	✓

<p>Fires in buildings</p> <p>https://www.ukfrs.com/guidance/fires-buildings</p>	Online	National Operational Guidance Programme	✓	✓
<p>Building Fire Scenarios - https://www.ukfrs.com/scenarios</p> <ul style="list-style-type: none"> • Commercial or residential building fire • Industrial or agricultural building fire • Domestic dwelling fire • Fires in tall buildings 				
<p>Fires in buildings under construction or demolition</p> <p>https://www.ukfrs.com/guidance/fires-buildings-under-construction-or-demolition</p> <p>Scenario - https://www.ukfrs.com/scenarios</p> <p>Building under construction or demolition</p>	Online	National Operational Guidance Programme	✓	✓
<p>Fires in buildings – building research establishment supplementary information</p> <p>https://www.ukfrs.com/guidance/knowledge-base</p>	Online	National Operational Guidance Programme	✓	✓
<p>Performing Rescues</p> <p>https://www.ukfrs.com/guidance/performing-rescues</p> <p>Scenario - https://www.ukfrs.com/scenarios</p> <ul style="list-style-type: none"> • Rescue from height • Rescue from depth • Rescue involving animals • Rescue of trapped person • Rescue from collapsed structure 	Online	National Operational Guidance Programme	✓	✓
<p>Water Rescue and Flooding</p> <p>https://www.ukfrs.com/guidance/water-rescue-and-flooding</p> <p>Scenario - https://www.ukfrs.com/scenarios</p> <p>Rescue from Water</p>	Online	National Operational Guidance Programme	✓	✓
<p>Environmental Protection</p> <p>https://www.ukfrs.com/guidance/environmental-protection</p> <p>Scenario - https://www.ukfrs.com/scenarios</p> <ul style="list-style-type: none"> • Environmental Protection 	Online	National Operational Guidance Programme	✓	✓

Major Incidents https://www.ukfrs.com/guidance/major-incident	Online	National Operational Guidance Programme	✓	✓
Industry https://www.ukfrs.com/guidance/industry	Online	National Operational Guidance Programme	✓	✓
Subsurface, height, structures and confined spaces https://www.ukfrs.com/guidance/subsurface-height-structures-and-confined-spaces	Online	National Operational Guidance Programme	✓	✓
Tunnels and underground structures supplementary material https://www.ukfrs.com/guidance/knowledge-base	Online	National Operational Guidance Programme	✓	✓
Utilities and Fuel https://www.ukfrs.com/guidance/utilities-and-fuel	Online	National Operational Guidance Programme	✓	✓
Utilities and fuel supplementary information https://www.ukfrs.com/guidance/knowledge-base	Online	National Operational Guidance Programme	✓	✓
Scenario - https://www.ukfrs.com/scenarios <ul style="list-style-type: none"> • Fire in electrical installation 				
Transport https://www.ukfrs.com/guidance/transport	Online	National Operational Guidance Programme	✓	✓
Scenario - https://www.ukfrs.com/scenarios <ul style="list-style-type: none"> • Aircraft rescue • Railway or tram fire • Railway or tram rescue • Road vehicle fire • Road Traffic Collision 				
Wildfires https://www.ukfrs.com/guidance/wildfires	Online	National Operational Guidance Programme	✓	✓
Scenario - https://www.ukfrs.com/scenarios <ul style="list-style-type: none"> • Wildfire 				

<p>Hazardous materials - https://www.ukfrs.com/guidance/hazardous-materials</p> <p>Hazardous Materials – health hazards - https://www.ukfrs.com/guidance/hazardous-materials-health-hazards</p> <p>Hazardous Materials – physical hazards - https://www.ukfrs.com/guidance/hazardous-materials-physical-hazards</p> <p>Scenario - https://www.ukfrs.com/scenarios</p> <ul style="list-style-type: none"> • Flammables • Explosives and cylinders • Health hazards 	Online	National Operational Guidance Programme	✓	✓
<p>The Foundation for Hazardous Materials https://www.ukfrs.com/guidance/knowledge-base</p>	Online	National Operational Guidance Programme	✓	✓
<p>Fires in waste sites (including renewable energy facilities) https://www.ukfrs.com/guidance/fires-waste-sites</p> <p>Scenario - https://www.ukfrs.com/scenarios</p> <ul style="list-style-type: none"> • Fire in a waste site 	Online	National Operational Guidance Programme	✓	✓
<p>Incidents involving animals https://www.ukfrs.com/guidance/incidents-involving-animals</p>	Online	National Operational Guidance Programme	✓	✓
<p>Fires on board vessels https://www.ukfrs.com/guidance/fires-board-vessels</p> <p>Scenario - https://www.ukfrs.com/scenarios</p> <ul style="list-style-type: none"> • Fire on board a vessel 	Online	National Operational Guidance Programme	✓	✓
<p>Firefighting equipment knowledge sheets https://www.ukfrs.com/guidance/knowledge-base</p>	Online	National Operational Guidance Programme	✓	✓
<p>Industry supplementary information https://www.ukfrs.com/guidance/knowledge-base</p>	Online	National Operational Guidance Programme	✓	✓
<p>Smart motorways national operating agreement https://www.ukfrs.com/guidance/knowledge-base</p>	Online	National Operational Guidance Programme	✓	✓

http://www.jesip.org.uk/uploads/media/pdf/CBRN%20JOPs/JESIP_CBRN_E_JOPS_Document_On.pdf	Online		✓	✓
Joint Doctrine of Interoperability Working https://www.jesip.org.uk/uploads/media/pdf/Joint%20Doctrine/JESIP_Joint_Doctrine_Document.pdf	Online		✓	✓

Fire Safety

Book Title	Publisher	Author	L3 Dip	L4 Cert
The Protection Handbook https://www.nationalfirechiefs.org.uk/write/MediaUploads/NFCC%20Guidance%20publications/Protection/DSFRS_Protection_Handbook.pdf	Online NFCC	Devon & Somerset Fire & Rescue Authority	✓	✓
Fire Service Manual Volume 3: Fire Safety Engineering – Basic Principles of Building Construction (IFE 46)	TSO	FSM Volume 3	✓	✓
Fire Service Manual Volume 3: Fire Safety – Fire Protection of Buildings (IFE 85)	TSO	FSM Volume 3	✓	✓
Code of Practice for Fire Safety in the Design, Management and Use of Buildings (very costly; use reference copies rather than purchase)		BS9999: 2008	✓	✓
Free download: http://www.firesafe.org.uk/graphical-symbols-and-abbreviations-for-fire-protection-drawings-2/	Online		✓	✓
Recommendations for graphic symbols and abbreviations for fire protection drawings		BS 1635:1990	✓	✓
Equipment for fire protection and firefighting - Graphical symbols for fire protection plans - Specification		ISO 6790:1986	✓	✓

Health Technical Memorandum 05-01: Managing healthcare fire safety Free downloads from: https://www.gov.uk/government/publications/managing-healthcare-fire-safety	Online		✓	✓
Free downloads from: https://www.gov.uk/government/collections/fire-safety-law-and-guidance-documents-for-business <i>Fire Safety Risk Assessment:</i> Offices and Shops Factories and Warehouses Sleeping Accommodation Residential Care Premises Educational Premises Small and Medium Places of Assembly Large Places of Assembly Theatres, Cinemas and Similar Premises Open Air Events and Venues Healthcare Premises Transport Premises and Facilities Animal Premises and Stables Means of Escape for Disabled People Animal Premises and Stables	Online		✓	✓
The BS 9999 handbook. Effective fire safety in the design, management and use of buildings	BSI	Michael Green and Jonathan Joinson	✓	✓
Guidance for the Reduction of False Alarms & Unwanted Fire Signals www.cfoa.org.uk/download/49412	CFOA Publications 2014		✓	✓
A guide to health, safety and welfare at music and similar events HSG 195 HSE 1999 https://www.gub.ac.uk/safety-reps/sr_webpages/safety_downloads/event_safety_guide.pdf	HSE	HSE	✓	✓

Fire Detection and Fire Alarm Systems: BS 5839 Parts 1 and Part 6, The Design, Installation, Commissioning and Maintenance of Fire Detection and Fire Alarm Systems – A Guide to BS Code 5839	BSI	Colin S. Todd 2008	✓	✓
Emergency Lighting: BS 5266 https://www.firesafe.org.uk/emergency-lighting/ https://www.bsigroup.com/PageFiles/434127/bs%205266.1.pdf			✓	✓
Guidance on the emergency use of lifts or escalators for evacuation and fire and rescue service operations BD 2466 www.highrisefirefighting.co.uk/docs/guidanceemergencylifts.pdf	Department for Communities and Local Government March 2009		✓	✓
Fire safety in purpose-built blocks of flats https://www.local.gov.uk/fire-safety-purpose-built-flats	Local Government Association, May 2012		✓	✓
Passive fire protection solutions British Gypsum January 2011 asfp.associationhouse.org.uk/default.php?cmd=262&company_id=438571	ASFP		✓	✓
Smoke and environmental ventilation of multi-storey buildings using shafts Colt 2015 groupscs.co.uk/wp-content/uploads/Guide-to-Mechanical-Smoke-Shafts_April15.pdf	SCS Group		✓	✓
Approved Document B Volume 1 - Dwelling Houses				
Approved Document B Volume 2 - Buildings other than dwelling houses				
Guide to Safety at Sports Grounds 5th Edition Section 15 Fire Safety Written by the Football Licensing Authority, on behalf of the Department for Culture, Media and Sport				