

Fire safety and fire protection survey and risk assessment - Existing site

Part 1 - Incidence of fire

Low Risk	0	1	2	3	4	5	High Risk
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1.1. Arson / deliberate fire (in the last 10 years)

No cases of arson / deliberate fire within school grounds	<input checked="" type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	Arson / deliberate fire common within school grounds
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1.2. Vandalism (in the last 5 years)

No cases of vandalism within school grounds	<input type="radio"/> 0	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	Vandalism common within school grounds
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1.3. History of fires

No major fires in the school in the last 10 years	<input checked="" type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	One or more major fires in last 10 years
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1.4. Incidence of arson in the locality

Locality has low arson rate (as reported to police)	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input checked="" type="radio"/> 4	<input type="radio"/> 5	Locality has high arson rate (as reported to police)
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1.5. Fires in other schools in the locality (in the last 5 years)

Few cases of fire in other schools in the locality	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input checked="" type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	Frequent cases of fire in locality
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Part 2 - Environment and buildings

Low Risk	0	1	2	3	4	5	High Risk
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2.1. Security measures - buildings

Good security measures provided for school building	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	Few security measures
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2.2. Security measures - school grounds

Good security measures provided for school grounds	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	No security measures
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2.3. Opportunities for arson

Few opportunities for arson	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	Many opportunities for arson
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2.4. Buildings state

Buildings well maintained with no damaged safety systems (e.g. fire doors)	<input checked="" type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	Buildings in disrepair and vandalised
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2.5. Building height

Single storey)	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input checked="" type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	High-rise
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2.6. Building construction

Traditional	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input checked="" type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	Lightweight
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2.7. Building design and routes for fire spread

Few	<input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	Many

2.8. Building size (total floor area)

Small building	<input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	Very large building

2.9. Building distribution (separation)

Distributed buildings	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	Single building

2.10. Risk of fire from school activity

Low	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	High

2.11. Out-of-hours use of school facilities (by the public)

None or low out-of-hours use	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	Frequent out-of-hours use

2.12. Building users at risk

Low	<input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	High

Part 3 Fire safety and fire protection measures

Low Risk	0	1	2	3	4	5	High Risk
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3.1. Passive fire protection measures

Buildings have adequate fire compartmentalisation and fire/smoke barriers and doors	<input checked="" type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	Overly large fire compartments and lack of fire/smoke barriers and doors
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3.2. Design relaxations of passive measures (for education reasons)

None	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	Atrium or open-plan areas
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3.3. Fire detection and warning system

Automated and linked to central control room	<input checked="" type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	Human detection and hand bell
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3.4. Means of escape (and emergency lighting and signage)

Many exits, short escape routes	<input checked="" type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	Few exits, long escape routes
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3.5. Occupancy density

Few people, in small groups	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	Large numbers in a single compartment
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3.6. Training and drills

Good training of staff, frequent drills	<input checked="" type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	No training, no drills
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3.7. Management (of fire safety)

	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5	
Good		Poor

3.8. Fire Service notification

	<input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5	
Automatic		None

3.9. Fire Service location

	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5	
Very close		Very distant

Part 4 Consequences/ impact of fire (Weight = 4)

Low Risk	0	1	2	3	4	5	High Risk
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4.1. Impact of fire on users (injury)

	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5	
Low		High (risk of death)

4.2. Impact of fire on learning

	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5	
Low		High

4.3. Impact on community

	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5	
Low		High

4.4. Potential cost

Low	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	High

4.5. Environmental impact

Low	<input type="checkbox"/> 0 <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	High

SCORE

Part 1	Incidence of arson (fire)	9	
Part 2	Environment and buildings	18	27
Part 3	Fire safety or fire protection measures	5	
Part 4	Consequences of a fire	24	29
TOTAL		56	

Scoring

Proposed overall scoring		Proposed scoring Parts 1 and 2		Proposed scoring Parts 3 and 4	
Low risk	0 – 40	Low risk	0 – 20	Low risk	0 – 20
Average risk	41 – 100	Average risk	21 – 60	Average risk	21 – 50
High risk	101 – 230	High risk	61 – 85	High risk	51 – 145

Overall score

Low risk

The fire safety and fire protection survey and risk assessment indicates your school is at a low level of risk. Sprinklers may be beneficial.

Average risk

The fire safety and fire protection survey and risk assessment indicates your school is at an average level of risk. A sprinkler system is recommended.

High Risk

The fire safety and fire protection survey and risk assessment indicates your school is at a high level of risk. Sprinklers should be provided.

The tables below list the type of fire safety and fire protection measures that might be appropriate for your school.

Fire safety or fire protection measures for consideration to reduce risk of fire (Parts 1 and 2)

Low risk

The fire safety and fire protection survey and risk assessment indicates your school is at a low level of risk with regard to the incidence of fire and environment and buildings.

Sprinklers may be beneficial. You may also wish to consider:

- Improved building security measures
- Improved site security measures
- Better building and equipment maintenance
- Further control of activities likely to cause a fire

Average risk

The fire safety and fire protection survey and risk assessment indicates your school is at an average level of risk with regard to the incidence of fire and environment and buildings.

A sprinkler system is recommended. You may also wish to consider:

- Improved building security measures
- Improved site security measures
- Better building and equipment maintenance
- Improved control of activities likely to cause a fire
- Improved procedures to ensure that buildings are cleared of materials that can be used for arson

(Note: a sprinkler system may act as a deterrent to arsonists, but primarily acts to prevent a small fire growing)

The fire safety and fire protection survey and risk assessment indicates your school is at a high level

High Risk

The fire safety and fire protection survey and risk assessment indicates your school is at a high level of risk with regard to the incidence of fire and environment and buildings.

Sprinklers should be provided. You may also wish to consider:

- More building security measures
- More site security measures
- Security measures include;
 - good window locks,
 - intruder detection
 - CCTV
- Security staff / guards
- good perimeter fencing
- Car parks well lit and overlooked etc
- Doors secure against all but the most determined intruders
- Windows and roof-lights protected against intruders etc
- Better building and equipment maintenance
- Control of activities likely to cause a fire
- Buildings cleared of materials that can be used for arson

(Note: a sprinkler system may act as a deterrent to arsonists, but primarily acts to prevent a small fire growing)

Fire safety or fire protection measures for consideration to reduce risk of injury, damage, and consequences (if a fire does occur) (Part 3 and 4)

Low risk

The fire safety and fire protection survey and risk assessment indicates your school is at a low level of risk with regard to the risk of injury, damage, and consequences (if a fire does occur).

Sprinklers may be beneficial. You may also wish to consider:

- An improved automatic fire detection and alarm system
- Improved procedures to ensure doors are shut at night
- Secure storage (fire cupboards) for documents and coursework
- Better communications with local fire brigade
- Contingency plans, for example for use of alternative buildings
- Better planning, training and more frequent drills

Average risk

The fire safety and fire protection survey and risk assessment indicates your school is at an average level of risk with regard to the risk of injury, damage, and consequences (if a fire does occur).

A sprinkler system is recommended. You may also wish to consider:

- An improved automatic fire detection and alarm system
- Additional fire compartmentalization
- Procedures to ensure doors are shut at night
- Secure storage (fire cupboards) for documents and coursework
- Better communications with local fire brigade
- Contingency plans put in place for use of alternative buildings
- Better planning, training and more frequent drills

High Risk

The fire safety and fire protection survey and risk assessment indicates your school is at a high level of risk with regard to the risk of injury, damage, and consequences (if a fire does occur).

Sprinklers should be provided. You should also consider:

- An automatic fire detection and alarm system
- Additional fire compartmentalization
- Procedures to ensure doors are shut at night
- Secure storage (fire cupboards) for documents and coursework
- Better communications with local fire brigade
- Contingency plans put in place for use of alternative buildings
- Better planning, training and more frequent drills
- Controls on the number of people using the building

For more information on types of fire safety and fire protection measures refer to BB100: "Designing against the risk of fire in schools"