

**NEBOSH National General Certificate in Occupational Health and Safety - Lesson plan**  
**Element 10: Fire (Tuition time: 3 hours)**

Approx. timing	Content and tutor activity	Training intent	Aids and equipment	Learner activity
<b>5 minutes</b>	Introduce scope of Element 10 10.1: Fire principles 10.2: Preventing fire and fire spread 10.3: Fire alarms and firefighting 10.4: Fire evacuation	To introduce element.	Slides	Active listening
<b>10.1 Fire principles</b>				
<b>10.1.1 The fire triangle</b>				
<b>- minutes</b>	-	-	-	-
<b>10.1.2 Classification of fires</b>				
<b>- minutes</b>	-	-	-	-
<b>10.1.3 Principles of heat transmission and fire spread</b>				
<b>- minutes</b>	-	-	-	-
<b>- minutes</b>	<b>Activity (Data extraction)</b> Learners (individually) to consider the scenario on the slide, and identify the ways in which heat could be transferred around the building. Tutor to encourage feedback.	To apply understanding of heat transmission and fire spread.	Slides	Individual activity  Feedback to tutor/class Active listening
<b>10.1.4 Common causes and consequences of fire</b>				
<b>- minutes</b>	-	-	-	-
<b>10.2: Preventing fire and fire spread</b>				
<b>10.2.1 Control measures to minimise the risk of fire</b>				
<b>5 minutes</b>	<b>Activity (Pair and share)</b> Learners to reflect on their own organisations (or their current location) and consider whether the ignition sources are being controlled correctly. If they are not,	To apply understanding on the control of ignition sources.	Slides	Paired activity

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	what other controls would be recommended?			
	<b>10.2.2 Storage of flammable liquids in workrooms and other locations</b>			
- minutes	-	-	-	-
	<b>10.2.3 Structural measures to prevent the spread of fire and smoke</b>			
- minutes	-	-	-	-
	<b>10.3: Fire alarms and firefighting</b>			
	<b>10.3.1 Common fire-detection and alarm systems</b>			
- minutes	-	-	-	-
	<b>10.3.2 Portable firefighting equipment and 10.3.3 Extinguishing media</b>			
- minutes	-	-	-	-
	<b>10.3.4 Access for fire and rescue services and vehicles</b>			
- minutes	-	-	-	-
	<b>10.4: Fire evacuation</b>			
	<b>10.4.1 Means of escape</b>			
<b>10 minutes</b>	<b>Activity – (Group and share)</b> Tutor to divide class into small groups. Each group to consider what needs to be taken into account when providing a means of escape.	To understand what should be taken into consideration for a means of escape.	Flipchart/ Whiteboard/pens  Slides	Participate in group activity
<b>10 minutes</b>	Tutor to collate feedback from each group on a flipchart/whiteboard. Tutor to go through the summary slides for each of the following areas, highlighting any information missed in the activity: <ul style="list-style-type: none"> <li>• construction of the building</li> <li>• travel distances</li> <li>• stairs and passageways</li> <li>• fire doors</li> <li>• final exit doors</li> <li>• emergency lighting</li> </ul>			Feedback to tutor/class  Active listening

Approx. timing	Content and tutor activity	Training intent	Aids and equipment	Learner activity
	<ul style="list-style-type: none"> <li>directional and exit signage</li> <li>assembly points</li> </ul>			
<b>10.4.2 Emergency evacuation procedures; 10.4.3 Role and appointment of fire marshals</b>				
- minutes	-	-	-	-
<b>10.4.4 Fire drills</b>				
5 minutes	Tutor to explain the purpose and requirements of a fire drill.	To understand the purpose and requirements of a fire drill and to apply this understanding.	Slides  Whiteboard/ flipchart/pens	Active listening  Participate in group activity
10 minutes	<p><b><u>Activity (Group discussion/structured debate)</u></b></p> <p>Learners to reflect on fire drills that they have taken part in. They should consider what went well, what did not go well and what should be done to improve the evacuation/fire drill.</p> <p><b><u>(Alternative activity- Video clip)</u></b></p> <p>Conducting a fire drill:  <a href="https://youtu.be/TuMWWquiqV0">https://youtu.be/TuMWWquiqV0</a> )            What should be done to improve the evacuation/fire drill in your organisation?</p>			
<b>10.4.5 Provision for people with disabilities; 10.4.6 Emergency escape routes to be recorded in building plans</b>				
- minutes	-	-	-	-