

**NEBOSH International General Certificate in Occupational Health and Safety - Lesson plan (extract)**

**Element 7: Chemical and Biological Agents**

Approx. timing	Content and tutor activity	Training intent	Aids and equipment	Learner activity
<b>7.1.4 Health hazard classifications</b>				
<b>10 minutes</b>	Activity (Pair and share) In pairs, learners to consider one of the following substances and identify the associated health hazards: <ul style="list-style-type: none"> <li>• Paint</li> <li>• Glue</li> <li>• Pesticide</li> <li>• Diesel fumes</li> <li>• Synthetic mineral fibres</li> </ul> Each pair to feedback to tutor and class.	To apply understanding of health hazards to specific substances.	Slides	Paired activity Feedback to tutor and class.
<b>7.3.2 Long-term and short-term limits and 7.3.3 Why time-weighted averages are used</b>				
<b>5 minutes</b>	Activity (Individual and share) Learners to work individually to calculate the TWA. Learners to be asked for their answers, tutor to then feedback.	To apply understanding of TWA.	Slides	Individual activity Feedback to tutor Active listening
<b>7.4.2 Common measures used to control exposure to hazardous substances</b>				
<b>15 minutes</b>	Activity (Individual reflection followed by group discussion). Each learner to consider the PPE that is made available in their own workplaces. <ul style="list-style-type: none"> <li>• What is it protecting them against?</li> <li>• How is it stored?</li> <li>• What training is provided in the use of the PPE?</li> </ul> Tutor to gather feedback from learners and discuss as a group.	To apply learning about specific PPE to own workplace.	Slides Flipchart/whiteboard	Individual reflection Feedback to tutor Contribute to group discussion

Approx. timing	Content and tutor activity	Training intent	Aids and equipment	Learner activity
<b>7.5.1 Health risks, controls and likely workplace activities/locations where specific agents can be found</b>				
<b>15 minutes</b>	<p>Activity (Individual reflection then contribution to group discussion)</p> <p>Learners to consider:</p> <ul style="list-style-type: none"> <li>- What is the most hazardous chemical or biological agent in their workplaces?</li> <li>- What has been done so far to reduce the risk from this chemical or biological agent?</li> <li>- What further measures need to be carried out to further reduce the risk?</li> </ul> <p>Tutor to collate feedback on a whiteboard/flipchart.</p>	To understand the health risks and associated control measures for wood dust.	Slides	Individual reflection Contribution to group discussion