



## Assessing the situation: Technology (Mandatory)

### Answers

#### **Activity: Situation assessment**

Examine the following workshop tasks listed below. Identify the *minimum* safe working practices and procedures you would need to put in place in order to safely carry out the task listed.

Practical task	Minimum safe working practices and procedures you would need to do.
<p>Use a fixed scroll saw to cut out a wooden jigsaw puzzle you have just designed and drawn.</p> 	<p>PPE:</p> <ul style="list-style-type: none"> <li>• Eye protection.</li> <li>• Hair net, long hair restrained.</li> <li>• Apron, no loose clothing.</li> <li>• Enclosed leather shoes.</li> </ul> <ul style="list-style-type: none"> <li>• Check guards are in place and that the blade is properly tensioned.</li> <li>• Check speed is appropriate.</li> <li>• Check power cord is away from the blade.</li> </ul>
<p>Use a cordless portable drill to drill a hole in a piece of acrylic.</p> 	<p>PPE:</p> <ul style="list-style-type: none"> <li>• Eye protection.</li> <li>• Hair net, long hair restrained.</li> <li>• Apron, no loose clothing.</li> <li>• Enclosed leather shoes.</li> </ul> <ul style="list-style-type: none"> <li>• Check that the workpiece is properly held down in the vice or cramped to the bench.</li> <li>• Check that the drill size and speed are appropriate to the material. A small pilot hole may be required first if the hole is large.</li> </ul>

Use an electric poker to burn a design into a project.



PPE:

- Eye protection.
  - Hair net, long hair restrained.
  - Apron, no loose clothing.
  - Enclosed leather shoes.
  - It may be necessary to wear a face mask when burning some materials.
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- Ensure adequate ventilation.
  - Before connecting to mains power, check that the wire or element is in good order.
  - Check that there are no flammable materials nearby such as solvents or paper.
  - Ensure that the main isolating switch is easily accessible in the event of an accident.