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<th>Trade of Sheet Metalwork</th>
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## Document Release History

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<tr>
<td>01/08/06</td>
<td>First draft</td>
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<tr>
<td>31/03/14</td>
<td>2.0</td>
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Module 2 – Geometry and Pattern Development

Unit 8 – Moulded Sections

Duration – 12 Hours

Learning Outcome:
By the end of this unit each apprentice will be able to:

- Develop the patterns for compound bent surfaces (mouldings)
- Identify the basic moulding curves
- Draw neat freehand sketches of the basic moulding curves

Key Learning Points:

<table>
<thead>
<tr>
<th>Rk</th>
<th>Mould curve types, (i.e., cove, ovolo, ogee, bead, flute).</th>
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<tr>
<td>D</td>
<td>Pattern development.</td>
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<td>Rk</td>
<td>Estimation of material requirements.</td>
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<td>Sk</td>
<td>True shapes of cut-outs.</td>
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<tr>
<td>Sk</td>
<td>Applications of curves and gutters.</td>
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Training Resources:

- Drawing instruments, equipment and materials
- Textbook: The Geometry of Sheet Metalwork
- Instructor handouts, drawings

Exercise:
Sample exercise - Figure 1.

Key Learning Points Code:

- M = Maths
- D = Drawing
- RK = Related Knowledge
- Sc = Science
- P = Personal Skills
- Sk = Skill
- H = Hazards
Exercise/Procedure Instructions

Answer Sample Questions

MOULDED SECTIONS

1. Fig. 1 shows two views of a chute. Develop the full template. Scale: 1 : 10.

2. Two views of a short length of moulding formed from sheet metal are given in Fig. 2. Develop the full template, disregarding the metal thickness shown in the end view. Scale: full size.

3. An elevation and projected view of a scale pan is shown to a reduced scale in Fig. 3. Develop the full template. Scale: 1 : 5.

4. An elevation and plan of a short length of moulded section are given in Fig. 4. Develop the full template, ignoring the flat base. Scale: full size.

Figure 1 - Moulded Sections 1
Moulded Sections

When a sheet metal worker fabricates a moulded section it is usually for guttering or a fire surround. They are normally both functional and decorative. On account of their intricate shapes the amount of material needed for fabrication may take a bit of working out. And end view of the job is vital to work out the overall length of the piece.
Self Assessment
Index

M

Moulded Sections, 10