<table>
<thead>
<tr>
<th>Training Package:</th>
<th>Metal and Engineering MEM98</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title:</td>
<td>Use comparison and basic measuring devices</td>
</tr>
<tr>
<td>Unit Code:</td>
<td>MEM12.1AA</td>
</tr>
<tr>
<td>Industry Points:</td>
<td>2</td>
</tr>
<tr>
<td>Field / Band:</td>
<td>Specialisation Band A/</td>
</tr>
<tr>
<td></td>
<td>Measurement</td>
</tr>
<tr>
<td>HSC Indicative</td>
<td>20</td>
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</tbody>
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Resources that may be used in training and assessment for this unit include:

- Curriculum Corporation Project – Developing Learning Strategies for Training Packages for VET in Schools – Metal and Engineering Training Package
- TAFE NSW Module
- National Module NBB07 Hand and Power Tools, MEC072 Hand Tools
- Occupational Health and Safety legislation
- Materials developed by Registered Training Organisations
- Learner Guide
- Various commercially produced materials including textbooks and computer tutorials
<table>
<thead>
<tr>
<th>Element of Competency</th>
<th>Performance Criteria</th>
<th>Assessor Guide</th>
<th>HSC Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1A.1 Select and use comparison and/or basic measuring devices</td>
<td>Identify and select appropriate measuring devices to undertake required comparison or measurement using standard operating procedures</td>
<td>The correct device is selected to sort or categorise items in accordance with standard operating procedures</td>
<td>The correct device for comparison or measurement to be undertaken can be identified and justified as meeting comparison or measurement need</td>
</tr>
<tr>
<td>12.1A.1.1</td>
<td>The pre-set device is stored and maintained in accordance with manufacturer’s/standard operating procedures</td>
<td>Learning experiences for the HSC must draw upon the range statement.</td>
<td></td>
</tr>
<tr>
<td>12.1A.2 Undertake measurement or sorting of items using comparison and/or basic measuring device</td>
<td>All devices are correctly handled and appropriately applied in undertaking the comparison or measurement</td>
<td>The application of the device can be identified</td>
<td></td>
</tr>
<tr>
<td>12.1A.2.1 Ensure basic care and storage to manufacturer’s standards or standard operating procedures</td>
<td>The procedures for maintaining and storing the pre-set device can be identified</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Element of Competency</th>
<th>12.1A.2 Maintain comparison and/or basic measuring devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1B.1</td>
<td>Ensure basic care and storage to manufacturer’s standards or standard operating procedures</td>
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</table>
**Title:** Use comparison and basic measuring devices

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<thead>
<tr>
<th>Range Statement</th>
<th>HSC Indicative Hours: 20</th>
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<tbody>
<tr>
<td>Work is undertaken autonomously or as part of a team. Comparison measurements are undertaken in a production environment or at a work station. These may include length, angle, size, temperature, pressure, weight, voltage, resistance and amperage. Comparison devices may include: go-no-go, thread angle and taper gauges, temperature gauges, pressure gauges, measuring gauges, weight scales, overlay indicator, digital devices, preset verniers and micrometers. All comparative measurements undertaken to standard operating procedures and to regulatory and legislative requirements. Basic measuring devices may include linear measuring devices, measuring to within 1mm graduation. This may include rules, tapes and retractable tapes.</td>
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<tr>
<th>Evidence Guide</th>
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<tbody>
<tr>
<td><strong>1. Assessment context</strong></td>
<td>This unit should be assessed on the job. The competencies covered by this unit would be demonstrated by an individual working alone, or as part of a team. The assessment environment should not disadvantage the candidate.</td>
</tr>
<tr>
<td><strong>2. Assessment conditions</strong></td>
<td>The candidate will be provided with: • All tools, equipment, materials and documentation required. • The candidate will be permitted to refer to the following documents: – Any relevant workplace procedures. – Any relevant product and manufacturing specifications – Any relevant codes, standards, manuals and reference materials. The candidate will be required to: • Orally, or by other methods of communication, answer questions put by the assessor. • Identify colleagues who can be approached for the collection of competency evidence where appropriate. • Present evidence of credit for any off-job training related to this unit. Assessors must be satisfied that the candidate can completely and consistently perform all elements of the unit as specified by the criteria, including required knowledge.</td>
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</tbody>
</table>
### Title: Use comparison and basic measuring devices

| HSC Indicative Hours: 20 |

### 3. Critical aspects
This unit could be assessed in conjunction with any other units addressing the safety, quality, communication, materials handling, recording and reporting associated with the computations being performed or other units requiring the exercise of the skills and knowledge covered by this unit.

Competency in this unit cannot be claimed until all prerequisites have been satisfied.

### 4. Special notes
During assessment the individual will:
- Demonstrate safe working practices at all times;
- Communicate information about processes, events or tasks being undertaken to ensure a safe and efficient working environment;
- Take responsibility for the quality of their own work;
- Plan tasks in all situations and review task requirements as appropriate;
- Perform all tasks in accordance with standard operating procedures;
- Perform all tasks to specification;
- Use accepted engineering techniques, practices, processes and workplace procedures.

Tasks involved will be completed within reasonable timeframes relating to typical workplace activities.