<table>
<thead>
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<th>Title</th>
<th>Repair and overhaul compressed air systems</th>
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**Purpose**
People credited with this unit standard are able to analyse and plan, repair and overhaul, test, and report the repair and overhaul of compressed air systems.

**Classification**
Electricity Supply > Electricity Supply - Power System Maintenance

**Available grade**
Achieved

### Guidance Information

1. This unit standard is intended for, but not restricted to, workplace assessment. The range statements within the unit standard can be applied according to industry specific equipment, procedures and processes.

2. Safety of personnel and plant must be a priority throughout the assessment. If the safety requirements are not met the assessment must stop and the candidate will be assessed as not yet competent.


4. ‘Industry requirements’ include all industry and documented workplace policies, procedures, specifications, business, and quality management requirements relevant to the workplace in which assessment is carried out.

5. The term ‘repair and overhaul’ includes fault finding, corrective work and minor modifications to generation plant and equipment.

6. This unit standard includes whole pressurised system downstream of compressor non-return valve.

7. This unit standard excludes pneumatic tools, hoses, and compressors.
Outcomes and performance criteria

Outcome 1

Analyse and plan compressed air system repair and overhaul requirements.

Range  maintenance records, scope of work, resources, specifications, work plan, drawings, identification of hazards.

Performance criteria

1.1 The need to repair and overhaul is determined in accordance with industry requirements.

Range  includes but is not limited to - defect notification, condition monitoring, failure, trip, loss of performance.

1.2 Work plans are prepared in accordance with industry requirements.

1.3 Prepared plans identify all necessary procedures and resources required for the service in accordance with industry requirements.

1.4 Work plans and specifications are complete, concise, and legible, and reflect identified risk with hazards being identified and eliminated, isolated, or minimised in accordance with industry requirements.

1.5 Work plans and specifications are made available for all personnel involved in implementing the plans within the scheduled time frame and in accordance with industry requirements.

Outcome 2

Repair and overhaul compressed air systems.

Range  ring main and radial compressed air systems.

Performance criteria

2.1 Isolation of plant and equipment is checked in accordance with industry requirements.

2.2 Compressed air systems and components requiring repair and overhaul are identified, analysed, and condition determined in accordance with industry requirements.

2.3 Compressed air systems and components are repaired and overhauled in accordance with industry requirements.
Range includes but is not limited to - dis-assemble compressed air systems into component parts (pressure vessel, safety valve, compressor pipework, valves, filters), clean and inspect component parts for defects, locate, identify, and diagnose defects, assess the need for repair or replacement, adjust, repair defective components, install replacement components, clean, reassemble components into compressed air systems, check control and indications.

2.4 Repair and overhaul activities and resources are co-ordinated throughout the duration of the work to minimise disruption to personnel, plant, electricity generation, and the environment in accordance with industry requirements.

Outcome 3
Test compressed air systems.

Range test run, safety valve operation, leaks, temperature, calibration, test readings, noise.

Performance criteria
3.1 Tests are carried out in accordance with the prepared work plan and industry requirements.
3.2 Test equipment is used in accordance with industry requirements.

Outcome 4
Report repair and overhaul.

Range repair and overhaul report, job sheet, daily diary, log book, test reports and results, plant history, authorisations, ‘as built’ drawings.

Performance criteria
4.1 Reported information is completed in accordance with industry requirements.
4.2 Maintenance information is recorded in the format required by the asset owner and filed within scheduled timeframe in accordance with industry requirements.
4.3 Any further action required for plant and equipment is identified, recorded, and communicated to appropriate personnel in accordance with industry requirements.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.
### Status information and last date for assessment for superseded versions

<table>
<thead>
<tr>
<th>Process</th>
<th>Version</th>
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<td>26 March 1997</td>
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<td>2</td>
<td>30 November 2000</td>
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### Consent and Moderation Requirements (CMR) reference

0120