Title	**Shut down for maintenance, and start up, a pneumatic power system**		
Level	**2**	**Credits**	**4**

Purpose	People credited with this unit standard are able to shut down a pneumatic power system for maintenance, and start up a pneumatic power system.

Classification	Mechanical Engineering > Fluid Power - Pneumatics

Available grade	Achieved

Guidance Information

1 Reference
Health and Safety at Work Act 2015.

2 Definitions
Accepted industry practice – approved codes of practice and standardised procedures accepted by the wider mechanical engineering industry sectors as examples of best practice.
PPE – refers to personal protective equipment and may include but is not limited to protective clothing, gloves, safety glasses, headwear, footwear, hearing protection, and safety devices.
Workplace procedures – procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, procedures to comply with legislative and local body requirements.

3 Assessment information
Assessment against this unit standard requires the candidate to recognise hazards associated with pneumatic fluid power systems. All work activities necessitate the use of approved PPE for working with such systems, and awareness of hazard identification and management.

Outcomes and performance criteria

Outcome 1

Shut down a pneumatic power system for maintenance.

Performance criteria

1.1 Shut down instructions are verified with supervisor and followed.

1.2 Air consumption system is isolated from air production system in accordance with accepted industry practice.

Range electrical, mechanical, and potential energy sources.

1.3 Shut down sequence is followed in accordance with system type and workplace procedures.

1.4 Components of the air consumption system are depressurised in accordance with workplace procedures.

Range examples of components are – tubing, three-position valves, actuator(s).

Outcome 2

Start up a pneumatic power system.

Performance criteria

2.1 Initial system settings are confirmed with supervisor prior to start-up.

2.2 Air consumption system is re-energised to accepted industry practice, and workplace procedures where applicable.

Range electrical, mechanical, and potential energy; regulator adjustment; prevention of cylinder shoot-out.

2.3 System performance is checked to ensure it meets operational requirements.

2.4 Workplace and system is cleaned in accordance with accepted industry practice, and is verified with supervisor.

Replacement information	This unit standard and unit standard 20597 replaced unit standard 2723.

Planned review date	31 December 2022

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 May 2004	31 December 2014
Review	2	18 March 2011	31 December 2022
Review	3	17 August 2017	N/A

Consent and Moderation Requirements (CMR) reference	0013

This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.

Comments on this unit standard

Please contact Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.