

Demonstrate knowledge of belt and chain drive systems on plant and machinery

Level 3

Credits 2

Purpose This theory-based unit standard is for people in the automotive repair industry. People credited with this unit standard are able to demonstrate knowledge of belt and chain drive systems on plant and machinery.

Subfield Motor Industry

Domain Automotive Transmission Systems

Status Registered

Status date 25 February 2008

Date version published 25 February 2008

Planned review date 31 December 2012

Entry information Open.

Replacement information This unit standard and unit standard 24322 replaced unit standard 2343.

Accreditation Evaluation of documentation and visit by NZQA and industry.

Standard setting body (SSB) NZ Motor Industry Training Organisation (Incorporated)

Accreditation and Moderation Action Plan (AMAP) reference 0014

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

Special notes

- 1 Legislation relevant to this unit standard includes but is not limited to – Health and Safety in Employment Act 1992.
- 2 Definition
Service information may include but is not limited to – technical information of a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions and specifications; technical terms and descriptions; and detailed illustrations. This can be accessed in hard copy or electronic format and is normally sourced from the manufacturer.

Elements and performance criteria

Element 1

Demonstrate knowledge of belt drive systems on plant and machinery.

Range includes but is not limited to – vee belts, multiple vee belts, flat belts, toothed belts, vee pulleys, variable speed vee pulleys, flat pulleys, toothed pulleys.

Performance criteria

1.1 The characteristics of belt drives are described in accordance with service information.

Range advantages, disadvantages, construction, tension, power transmitted.

1.2 The maintenance of belt drives is described in accordance with service information.

Range pulley wear, belt wear, misalignment, tension adjustment.

1.3 Procedures for testing the belt drive system for correct operation are described in accordance with service information.

Element 2

Demonstrate knowledge of chain drive systems on plant and machinery.

Range single roller chain, multiple roller chain, link-belt chain.

Performance criteria

2.1 The characteristics of chain types used on equipment are described in accordance with service information.

Range advantages, disadvantages, construction, speed ratios and drive direction, power transmitted.

2.2 The maintenance of chain drive systems is described in accordance with service information.

Range sprocket wear, chain wear, misalignment, tension adjustment, lubrication.

2.3 Procedures for testing the chain drive system for correct operation are described in accordance with service information.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the NZ Motor Industry Training Organisation (Incorporated) info@mito.org.nz if you wish to suggest changes to the content of this unit standard.