

Rectify belt and chain drive system faults on plant or machinery

Level 4

Credits 3

Purpose This unit standard is for people in the automotive repair industry. People credited with this unit standard are able to rectify belt drive and chain drive faults on plant or machinery.

Subfield Motor Industry

Domain Automotive Transmission Systems

Status Registered

Status date 25 February 2008

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Entry information Recommended: Unit 24321, *Demonstrate knowledge of belt and chain drive systems on plant and machinery*, or demonstrate equivalent knowledge and skills.

Replacement information This unit standard and unit standard 24321 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 Definitions

Company requirements refer to instructions to staff on policy and procedures which are documented in memo or manual format and are available in the workplace. These requirements include but are not limited to – company specifications and procedures, work instructions, manufacturer specifications, product quality specifications, and legislative requirements.

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.

Suitable tools and equipment means industry approved tools and equipment that are recognised within the industry as being the most suited to complete the task in a professional and competent manner with due regard to safe working practices.

- 3 For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.

Elements and performance criteria

Element 1

Rectify belt drive faults on plant or machinery.

Range vee belt drives, flat belt drives, toothed belt drives.

Performance criteria

- 1.1 Safe working practices are observed throughout the task in accordance with legislative requirements.

Range personal safety, safety of others, plant or machinery safety, workshop safety, environmental safety, tools and equipment safety.

- 1.2 Suitable tools and equipment are selected and used that enable the belt drives to be repaired in accordance with service information.

- 1.3 Belt drive is removed from the machinery in accordance with service information.

- 1.4 Worn and damaged belts and pulleys are returned to full serviceability in accordance with service information.

Range replace with approved replacement parts, repair, adjust.

- 1.5 The belt drive is replaced on the machinery and the system tested for correct operation, and the results noted, in accordance with service information.

Element 2

Rectify chain drive faults on plant or machinery.

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

Performance criteria

2.1 Safe working practices are observed throughout the task in accordance with legislative requirements.

Range personal safety, safety of others, plant or machinery safety, workshop safety, environmental safety, tools and equipment safety.

2.2 Suitable tools and equipment are selected and used that enable the chain drive to be repaired in accordance with service information.

2.3 Chain drive is removed from the plant or machinery in accordance with service information.

2.4 Worn and damaged chains and sprockets are returned to full serviceability in accordance with company requirements.

Range replace with approved replacement parts, repair, adjust.

2.5 Any chain tensioning device which is part of the chain drive system is returned to full serviceability in accordance with service information.

Range replace with approved replacement parts, repair, adjust.

2.6 The chain drive is replaced on the plant or machinery, checked for operational security and efficiency, and lubricated as specified by the manufacturer.

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.