Install or replace railway sleepers

Level 2
Credits 2

Purpose People credited with this unit standard are able to: prepare to install or replace railway sleepers; follow rail permission systems; undertake sleeper installation or replacement; and check work and complete documentation.

Subfield Rail Transport
Domain Rail Infrastructure
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Standard setting body (SSB) Competenz

Accreditation and Moderation Action Plan (AMAP) reference 0013
This AMAP can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.

Special notes

1 Assessment against this unit standard is to be carried out within the context of an organisation operating under a current, valid Rail Licence issued in accordance with the provisions of the Railways Act 2005. The organisation’s operating rules, codes, and instructions, referred to in this unit standard, are those the organisation has in place to meet the requirements of the Rail Licence.

2 Legislation relevant to this unit standard includes the Health and Safety in Employment Act 1992, and Railways Act 2005.

3 Definitions
Organisational procedures refer to documents that include: worksite rules, codes, and practices; equipment operating instructions; documented quality management systems; and health and safety requirements.
Work plan refers to instructions that may include: work/service order, verbal instruction, formal work plan.
Elements and performance criteria

Element 1

Prepare to install or replace railway sleepers.

Performance criteria

1.1 Safety requirements are identified in accordance with organisational procedures.

1.2 Work plan for the installation or replacement of sleepers is received, interpreted, and followed in accordance with organisational procedures.

Range may include but is not limited to – removal of existing sleepers, selection of type of sleepers and fastening systems, installation method.

1.3 Work methods to be employed are identified in accordance with organisational procedures.

Range methods may be – manual, mechanical.

1.4 Underground services are identified and located in accordance with organisational procedures.

Range may include but is not limited to – power, communications, gas, water.

1.5 Tools and equipment are selected in accordance with work plan.

Range may include but is not limited to – mechanical handling/lifting equipment, hand/power tools, fastening equipment.

1.6 Sleepers selected for installation are appropriate in terms of type and condition in accordance with work plan.

1.7 Rail to sleeper fastening systems are selected in accordance with work plan.

Range may include but is not limited to – dogspikes, screwspikes, rail clips.

Element 2

Follow rail permission systems.

Performance criteria

2.1 Track protection is established in accordance with organisational procedures.
2.2 Train movement information is accessed and interpreted in accordance with organisational procedures.

2.3 Permission to work or travel is obtained in accordance with organisational procedures.

Element 3

Undertake sleeper installation or replacement.

Performance criteria

3.1 Personal protective equipment (PPE) is used in accordance with organisational procedures.

Range may include but is not limited to – high visibility clothing, hearing protection, gloves, sunscreen, sunglasses, safety glasses, insect repellent, safety headwear, safety footwear, portable radios, hand lamps, flags.

3.2 Loading and unloading of sleepers is conducted in accordance with organisational procedures.

3.3 Where necessary, sleepers are extracted in accordance with organisational procedures.

3.4 Where materials are removed, they are stored or disposed of in accordance with organisational procedures.

Range materials may be – reusable, unserviceable.

3.5 Sleepers and fastening systems are placed in accordance with organisational procedures.

Element 4

Check work and complete documentation of sleeper installation or replacement.

Performance criteria

4.1 Completed work is checked for compliance with work plan.

4.2 Documentation is completed in accordance with organisational procedures.

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