

Domain	RIGGING	Unit ID: 936
Title:	Identify and use fibre ropes	
Level: 2		Credits:4

Purpose

This unit standard specifies the competencies required to identify and use fibre ropes. It includes identifying and explaining the application of fibre ropes, splicing, joining and inspecting fibre ropes and maintaining, caring and storing fibre ropes. This unit standard is intended for those who work in lifting machine operations environment.

Special Notes

1. Environment contexts under which this unit standards is used include but are not limited to:
 - Manufacturing and engineering (Metals, Plastics, Tyre and Rubber, Electrical Power Generation, Automotive Manufacturing).
 - Chemical and Petrochemical.
 - Mining.
 - Transport (Maritime, Road, Rail and Aviation).
 - Civil Engineering and Construction.
 - Food and Beverages.
 - Other engineering-related industry sectors.
2. Assessment evidence may be collected from a real workplace, or an appropriate simulated realistic environment in which lifting machine operations are carried out.
3. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' specifications, guidelines and instructions.
4. Regulations and legislation relevant to this unit standard include the following:
 - Labour Act, No. 11, 2007
 - Regulations relating to the Health and Safety of employees at work, 1997 and all subsequent amendment.

Quality Assurance Requirements

This unit standard and others within this subfield may be awarded by institutions which meet the accreditation requirements set by the Namibia Qualifications Authority and the Namibia Training Authority and which comply with the national assessment and moderation requirements. Details of specific accreditation requirements and the national assessment arrangements are available from the Namibia Qualifications Authority and the Namibia Training Authority on www.nta.com.na.

Elements and Performance Criteria

Element 1: Identify and explain the application of fibre ropes

Performance Criteria

- 1.1 Various types of fibre ropes and their applications are identified and explained.
- 1.2 Charts and/or calculations are used in order to select the applicable fibre rope.
- 1.3 The consequences of the unsafe use of fibre ropes, is explained and discussed.
- 1.4 Splicing and joining methods are explained and demonstrated according to industry practice.
- 1.5 Terms and definitions used are consistent with generally accepted mechanical handling work-site practice.

Element 2: Splice, join and inspect fibre ropes

Range

Fibre ropes may include but are not limited to the range of natural and synthetic types and applications.

Joining may include but is not limited to knots, bends and hitches of all types relevant to different industries.

Splicing may include but is not limited to methods relevant to different industries (grommet-, long-, short, eye-, back-splices).

Inspection and the checking of fibre ropes may include but is not limited to visual inspection.

Performance Criteria

- 2.1 Methods of splicing and joining fibre ropes are explained in terms of industry standards.
- 2.2 Methods of splicing and joining of fibre ropes are demonstrated in line with specified requirements.
- 2.3 The splicing method is performed and corresponds with specification and work instructions.
- 2.4 The splice is checked for serviceability in line with standard regulatory and worksite practices.
- 2.5 Inspections are carried out on fibre ropes.

Element 3: Maintain, care and store fibre ropes

Performance Criteria

- 3.1 Fibre ropes are stored in line with regulatory requirements.
- 3.2 Proper care and storage procedures for fibre ropes in line with work site practices are explained.
- 3.3 Information regarding the use of the fibre ropes is recorded in line with regulations and accepted worksite practice.

Registration Data

Subfield:	Lifting, Shifting and Secure loads
Date first registered:	27 September 2012
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