



LIFTING EQUIPMENT ENGINEERING

— ASSOCIATION OF SA —

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SWR ROPE DESIGN & KNOWLEDGE



Course Name:
SWR Rope Design & Knowledge



Course Number:
LCPD-2025-25



Course Duration:
10 Hours



ECSA CPD Credit:
1



Presenter:
Various



- ✓ The course is structured around the history, design, manufacturing and inspection of steel wire ropes, rope storage drums & rope sheaves. The correct storage, installation and maintenance of the ropes in service will be aligned to SANS 4309.
- ✓ Steel Wire Rope condition assessment is a key part of the course with examples of rope degradation and how to determine if the rope is fit for use or must be discarded. Determining future life and safety of the ropes will also be covered.



ABOUT THIS COURSE

- ✓ The purpose of this course is to broaden and enhance the knowledge of crane rope inspectors, LMIs & machine users.
- ✓ This course is structured according to statutory requirements for inspections and is based on inspecting to SANS / ISO 4309:2001 condition assessment of steel wire ropes on cranes. Many new information is in the latest SANS standard and being overlooked by many inspectors.
- ✓ The performance, operation, testing and maintenance of cranes relating to rope safety, Manufacturing and inspection standards will be used as the training session.
- ✓ During this session you will be taught and be able to ask the required questions about the terms covered, and more..



TOPICS COVERED

- Rope History & Design
- Rope Lays & Characteristics
- Rope Standards SANS 4309
- Best Inspection Points
- Typical Damage Analysis
- Rope Manufacturing Process
- Rope Constructions
- Broken Wire Types
- Flacing & Correct Coiling
- Lubric, Core & Handling



WHO WILL PRESENT

- ✓ The course will be presented by skilled and experienced facilitators with decades of experience in the field of Lifting.
- ✓ Two of them are founding member of the Lifting Equipment Engineering Association of SA, also Registered Lifting Machinery Inspectors and has over 40 years of entrepreneurial experience.
- ✓ Two are rope makers with a combination of 80 years of wire rope inspection & use experience.
- ✓ One of the facilitators that will deal with the practical training is a Steel Wire Rope designer also with over 20 years of rope design and rope manufacturing experience.



THERE IS NO QUESTION THAT WILL NOT BE ANSWERED,
and the attendee will leave in a perfectly equipped way to conduct the inspection 100% correct.



KEY TAKEAWAYS



Understand rope
design & construction
codes and standards.



Identify damage
and assess rope
condition accurately.



Apply best inspection
practices and key
inspection points.



Ensure safe operation,
compliance and
extended rope life.



Gain confidence
through expert
practical guidance.



RESERVE YOUR SEAT TODAY!

INVEST IN KNOWLEDGE. SAVE LIVES.



ECSA RECOGNISED
VOLUNTARY ASSOCIATION
VA A0028
Expiry: 19 July 2029



ECSA CPD
LICENSED BODY
LB_016/2027
Expiry: 06 June 2027



ECSA CPD
SERVICE PROVIDER
SP_034/2025
Expiry: 10 October 2025

REGISTRATION NUMBER
2010 / 009944 / 08
VAT NUMBER: 4150323956
ESTABLISHED 2003

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