



LIFTING EQUIPMENT ENGINEERING

— ASSOCIATION OF SA —

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LMI ENGINEERING SKILLS TRAINING.



Course Name:
LMI Engineering Skills Training.



Course Number:
LCPD-2026-41



Course Duration:
10 Hours



ECSA CPD Credit:
1



Presenter:
Various



Can you explain the difference between a NDE and NDT? Bring your answer!



A lot in research went into this training session. Although this is not required to be too technical, it is important to mention, explain and detail the information the general LMI should know and understand.



WHAT CAN I EXPECT FROM SUCH INFO SESSION?

- From the first Module where all, or most of the general Engineering tools, used by the LMI when items are measured, tested and more, the information being shared is investigated in great depth and detail.
- Ranging from the tape measure all the way to waterbags, load cells and even MPI tools are explained and their purpose brought across.
- In the following Modules, basic concrete and steel strengths are discussed to ensure the LMI know where and how to ask the required questions based on what they find and experience on a testing site.
- The last session is dedicated to the various different machining processes, how they work and what they are used for in practice.
- This new, different session was a good step into the correct direction, more of this type of topic will be offered going forward.
- Sessions like this makes it critical for all LMI's to attend CPD training and you will be left with the full understanding why CPD is a critical component in each Registered person's ECSA path over their active lifetime.
- Join the session and share your experience with the rest of the attendees. You will leave with a far more detailed understanding of what to inspect for and how to plan the correct use of this vital engineering knowledge more effectively.



TOPICS COVERED

- DMR 18 – Discuss relevance to Loader Cranes
- Engineering Tools Generally Used by the LMI
- Concrete Strengths
- Steel Strengths
- Basic Machining Skills



ENGINEERING TOOLS



CONCRETE STRENGTHS



STEEL STRENGTHS



BASIC MACHINING SKILLS



Understand the standards, apply the correct engineering knowledge and make informed, safe and compliant decisions with confidence.



WHY THIS TRAINING MATTERS

- Strengthen your practical engineering knowledge and skills.
- Understand the tools, materials and processes used in lifting operations.
- Gain in-depth knowledge of concrete and steel properties.
- Learn basic machining processes and their real-world applications.
- Improve the accuracy, safety and reliability of your inspections and tests.
- Ensure compliance with legal requirements and industry standards.
- Reduce risks and prevent equipment failure.
- Enhance the quality of your certificates and reports.
- Network and learn from experienced industry professionals.



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.



MPI – MAGNETIC
PARTICLE INSPECTION

KEY TAKEAWAYS



Build essential engineering knowledge for LMIs.



Understand tools, materials and measurement.



Know concrete and steel strengths and how they apply.



Learn basic machining processes and their practical use.



Make better decisions, ensure safety and compliance.



Grow your skills and professional confidence.



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

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