



Management of Continuously Welded Rails

Presented by the Chair in Railway Engineering, Department of Civil Engineering,
University of Pretoria in cooperation with Transnet Freight Rail

ECSA CPD Points

The **Management of Continuously Welded Rails** short course will provide you with an in-depth understanding of the basic principles and management of continuously welded rails, with a strong focus on balancing theory and practical application. Throughout this course, you will be exposed to topics on rail forces and track loading, rail manufacturing, rail welding and failures, vertical and horizontal stability, rail breaks, kick-outs and destressing, among others.

This course is presented as part of the Railway Engineering Education Programme of the University of Pretoria.



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Shifting knowledge to insight



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Course content

- CWR theory, principles and application
- Rail forces and track loading
- Rail manufacturing and basic properties
- Rail welding and failures
- Vertical and horizontal stability
- Rail breaks and kick-outs
- Stress free temperature methods
- Rail destressing
- CWR management
- TFR experience
- Advanced CWR applications
- Case studies

Learning outcomes

After successfully completing this course, you will have a better understanding of the application of continuously welded rails, the management thereof, and CWR management principles.

Who should enrol?

This course is ideal for you if you are employed as an engineering professional with experience in the railway industry.

Admission requirements

Prospective delegates should at least have a Level NQF 5 (Diploma/Degree) and/or relevant experience in Railway Engineering.

Accreditation and certification

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Registration and enquiries

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Shifting knowledge to insight

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