



Training Session 'Mechanised Tunnelling'

29-30 June 2015 - Venue: Guadalajara

MEXICO

Objective: this course aims to provide general information to young engineers & to update tunnelling professionals on topics related to Mechanised Tunnelling. The Course topics are presented in such a way to build the basic concepts of Mechanized Tunnelling necessary for professionals.

Monday 29 June 2015

Session 1 : Introduction & Overview

- 09.00 – 09.10 : Welcome & Opening
- 09.10 – 09.25 : Situation of tunnelling in Mexico
- 09.30 – 09.45 : Brief overview : Why go underground
- 09.45 – 10.30 : Advantages & disadvantages of Mechanized Tunnelling
- 10.30 – 11.00 : Coffee break
- 11.00 – 11.45 : Geotechnical and Hydrological investigations prior to the choice of the tunnelling method
- 11.45 – 12.30 : Selection of criteria for TBMs according to the project & the site conditions

Session 2 : Improvement & Support systems

- 12.30 – 13.15 : Segmental lining
- 13.15 – 14.45 : Lunch break
- 14.45 – 15.30 : Backfilling grouting
- 15.30 – 16.15 : Ground improvement
- 16.15 – 16.45 : Coffee break
- 16.45 – 17.30 : Risk & Safety management
- 17.30 – 18.00 : Questions & Answers

Tuesday 30 June 2015

Session 3: Operation

- 09.00 – 09.45 : Cutting tools & cutterhead design
- 09.45 – 10.30 : Chamber access & Compressed air work
- 10.30 – 11.00 : Coffee break
- 11.00 – 11.45 : Soil conditioning & muck removal systems
- 11.45 – 12.30 : Environment : Mucking, Water, Chemistry & Noise

Session 4 : Management & Examples

- 12.30 – 13.15 : Tunnel & Site logistics
- 13.15 – 14.45 : Lunch break
- 14.45 – 15.30: Selection of TBMs – Case histories
- 15.30 – 16.15 : Example 1 - Manufacturer on Soft Ground tunnelling
- 16.15 – 16.45 : Coffee break
- 16.45 – 17.30 : Example 2 - Manufacturer on Rock tunnelling
- 17.30 – 18.00 : Questions & Answers – Closing remarks

15/04/2015