

**Objective: Information for Tunnellers on Mechanized Tunnelling**

Day 1

**Session 1: Introduction and Overview**

- 09.00 – 09.45: Welcome and Opening: ITA and concerned country representatives
- 09.45 – 10.30: Advantages and Disadvantages of Mechanized Tunnelling
- 10.30 – 11.00: Coffee Break
- 11.00 – 11.45: State of the Art by ITA WG-14 (Mechanized Tunnelling)
- 11.45 – 12.30: Selection criteria for TBMs according to the Project Conditions
- 12.30 – 14.00: Lunch

**Session 2: Improvement and Support Systems**

- 14.00 – 14.45: Segmental Lining
- 14.45 – 15.30: Backfilling Grouting
- 15.30 – 16.00: Coffee Break
- 16.00 – 16.45: Ground Improvements
- 16.45 – 17.30: Risk and Safety management
- 17.30 – 18.00: Questions and Answers

Day 2

**Session 3: Operation**

- 09.00 – 09.45: Cutting Tools
- 09.45 – 10.30: Face Support and Compressed-Air Works
- 10.30 – 11.00: Coffee break
- 11.00 – 11.45: Soil Conditioning and Slurry Operation
- 11.45 – 12.30: Environment: Mucking, Water, Chemistry and Noise
- 12.30 – 14.00: Lunch

**Session 4: Management and Examples**

- 14.00 – 14.45: Tunnel and Site Logistics
- 14.45 – 15.30: Selection of TBMs – Case Histories
- 15.30 – 16.00: Coffee Break
- 16.00 – 16.45: Example 1: Manufacturer on Rock Tunnelling
- 16.45 – 17.30: Example 2: Manufacturer on Soft Ground Tunnelling
- 17.30 – 18.00: Questions/answers and Closing Remarks