

Objective: to provide an introduction to Health and Safety (H&S) in tunnel construction. The seminar would provide a general overview to be followed by more in-depth sessions on the hazards and risk associated with specific tunnelling techniques, generic safety issues affecting all tunnels and generic health issues arising from tunnelling activity. The seminar is aimed at Clients, Designers and Contractors.

Tentative Programme

Day 1

Session 1: General overview

- 09.00 – 09.45: Welcome and Opening: ITA and concerned country representatives
- 09.45 – 10.30: Introduction to H&S from WG5 including video
- 10.30 – 11.00: Coffee break
- 11.00 – 11.30: Legislation relevant to host nation, Guidance
- 11.30 – 12.00: Hazard identification, risk assessment and risk management
- 12.00 – 12.30: Role of parties to contract, contract requirements for H&S, H&S competence of contractor
- 12.30 – 14.00: Lunch

Session 2: Hazards and risks associated with different construction methods

- 14.00 – 14.45: Machine tunnelling in soft ground and hard rock
- 14.45 – 15.30: Drill & Blast and explosives safety
- 15.30 – 16.00: Coffee Break
- 16.00 – 16.45: SCL (roadheaders)
- 16.45 – 17.30: Hand tunnelling, Shaft sinking, Ground improvement, Compressed air, Membranes, Tunnel services
- 17.30 – 18.00: Questions and Answers

Day 2

Session 3: Safety in tunnelling construction

- 09.00 – 09.45: Fire
- 09.45 – 10.30: Tunnel transport and access
- 10.30 – 11.00: Coffee break
- 11.00 – 11.45: Emergency procedures, Communications, Lighting
- 11.45 – 12.30: Ventilation
- 12.30 – 14.00: Lunch

Session 4: Health in tunnel construction

- 14.00 – 14.45: Occupational Health
- 14.45 – 15.30: Welfare
- 15.30 – 16.00: Coffee Break
- 16.00 – 16.30: First aid
- 16.30 – 17.00: Competence of work force (training)
- 17.00 – 17.30: Personal Safety, Atmosphere monitoring, self rescuers
- 17.30 – 18.00: Questions and Closing Remarks