

# Course in Managing Fires in Tunnels - Advanced Level



All personnel involved in the construction, management and maintenance of road tunnel infrastructures have a key role to play in the event of a fire. Their decisions at critical moments will be key in managing the incident. Practical experience of fire situations in tunnels with smoke and real fire can make all the difference, and that is exactly what we offer. This advanced course expands to smoke orientation practices in a tunnel setting, which is highly useful for emergency and first response personnel.

## TRAINING IN A TUNNEL WITH REAL FIRE AND SMOKE

Applus+ TST has a 600-metre-long tunnel for the practical tests, similar to a two-way road tunnel. It features emergency exits to a gallery and as well as the most common tunnel ventilation systems. This experimental tunnel is specially prepared to carry out practical exercises with real fire and has long been used for training control room operators and road/maintenance personnel, firefighters, mine rescue teams and other professional profiles involved in emergencies in closed spaces.

The two-day training programme has 4 practical sessions and includes:

- Tunnel fire theory

- Breathing equipment in emergency management

**Practical test and demonstration with a real 5MW fire:**

- From inside the tunnel: evacuation exercises
- From the control room: smoke evolution
- Test-demonstration with white smoke from inside the tunnel
- Practice in extinguishing a real fire

**Other practical exercises :**

- Respiratory protection equipment
- Practice evacuation in a tunnel with white smoke
- Practical smoke movement in tunnel, with real fire
- Practice handling portable fire extinguishers
- Demonstration of water hose handling
- Smoke orientation practice in gallery setting

All exercises are coordinated and supervised by Applus+ TST personnel, maintaining all the necessary safety measures. On top of this, well-experienced special brigades participate, both for the control and evolution of the fire, as well as to act if necessary.

**AIMED AT:**

- Maintenance personnel
- Road workers
- Control room operators

**Course duration:** 15 hours