

## Independent Safety Assessment: *Metro line of Dubai 2020*

Customer: Roads & Transport Authority (operator)  
Place of execution: Dubai (United Arab Emirates)  
Project duration : 2016– 2020  
Team: 1 Project Manager and 14 assessors



### PROJECT'S DESCRIPTION:

The 15 km branch will start at Nakheel Harbour & Tower on the existing Red Line, then run on 11.8 km of viaduct with stations serving The Gardens, Discovery Gardens and Al Furjan. The stations at Jumeirah Golf Estates and Dubai Investment Park would be on a 3.2 km underground section, before the terminus at Expo 2020 site.

Trial operation is expected to start in the fourth quarter of 2019, with passenger services due to begin on May 20 2020, five months ahead of the opening of the Expo. The journey time from the Expo site to Dubai Marina is expected to be 16 min. Roads & Transport Authority had awarded the contract to build Route 2020 in June to the Expolink consortium of Alstom, Acciona and Gülermak. The 10.6bn dirham contract includes the supply of 50 trainsets, of which 15 are needed for the new line and 35 to increase capacity on existing routes. Thales will provide railway systems.

### SCOPE OF WORK:

In this project, Certifer is working closely with RTA (Roads & Transport Authority) from the definition to the commissioning of the line (Operation and Maintenance aspects are also included in the scope of work), on the following aspects:

Certifer performs an ISA mission on Dubai metro line,

- Operation Control System (OCS)
- Automatic Train Control (ATC)
- Power Supply and Distribution System (PDS), including 3rd rail
- Communication Systems (COM)
- Platform Screen Doors (PSD)
- Automatic Fare Collection (AFC)
- Depot Equipment (DEQ)
- Civil Works, including over-ground, at-grade and underground works
- Mechanical, Electrical & Plumbing, including services and utilities
- Permanent Ways
- Fire and Life Safety
- Electromagnetic Compatibility
- Software Safety

The main activities carried out by Certifer include

- Monthly reports on project progress and key risks
- Assessment and monitoring of risk analysis throughout the project (from design to commissioning)
- Audits of the main suppliers and project management
- Completion of final assessment reports for each subsystem