

# € TRAINING

Intelligent Transportation Systems

A group of four smiling professionals (two men and two women) in a meeting room, wearing white shirts, sitting around a table. The image is partially obscured by a blue curved graphic element.

13 - 17 October 2024  
Sharm El-Sheikh (Egypt)



# Intelligent Transportation Systems

REF: L1934 DATE: 13 - 17 October 2024 Venue: Sharm El-Sheikh (Egypt) - Fee: 4095 Euro

## Introduction:

This training program is designed to provide participants with comprehensive knowledge and skills related to the design, implementation, architecture, engineering processes and management of ITS. It enhances their ability to create efficient, safe, and innovative transportation solutions.

## Program Objectives:

At the end of this program, participants will be able to:

- Understand the principles and components of ITS architecture.
- Apply engineering processes to the development and deployment of ITS.
- Comprehend the standards governing ITS.
- Design and implement effective ITS solutions.
- Evaluate and improve existing ITS deployments.
- Promote innovation and best practices in transportation systems.

## Targeted Audience:

- Transportation Engineers and Planners.
- ITS Professionals and Technicians.
- Urban Planners and City Managers.
- Traffic Management Specialists.
- Anyone involved in the development and management of transportation systems.

## Program Outline:

### Unit 1:

#### Fundamentals of Intelligent Transportation Systems:

- Introduction to Intelligent Transportation Systems ITS.
- Components and Functions of ITS.

- Benefits and Challenges of ITS Deployments.
- Case Studies on Successful ITS Implementations.

## Unit 2:

### ITS Architecture:

- Overview of ITS Architecture.
- National ITS Architecture and Regional ITS Architectures.
- System Engineering Process for ITS.
- Integration of ITS with Existing Infrastructure.
- Tools and Methods for ITS Architecture Design.

## Unit 3:

### Engineering Processes for ITS:

- System Development Life Cycle SDLC in ITS.
- Requirements Analysis and Management.
- System Design and Specifications.
- Implementation and Integration of ITS.
- Testing, Verification, and Validation of ITS.

## Unit 4:

### ITS Standards:

- Overview of ITS Standards.
- Key ITS Standards and Protocols NTCIP, ISO, IEEE.
- Data Standards and Interoperability.
- Security Standards for ITS.
- Compliance and Certification Processes.

## Unit 5:



## Innovation and Best Practices in ITS:

- Emerging Technologies in ITS Connected Vehicles, IoT.
- Best Practices in ITS Deployment and Management.
- Evaluating ITS Performance and Effectiveness.
- Continuous Improvement in ITS Projects.
- Future Trends and Innovations in ITS.