

Traffic Safety in Work Zone

24-26 September, 2019

Doha, Qatar

COURSE DESCRIPTION

One of the main problems we find in work zones is the high rate of fatalities that occur in them. Statistical data confirms that drivers represent more than eighty percent (80%) of the fatalities in work zones. This clearly highlights that safety in work zones is paramount, and professionals should be aware of how to remove, target or mitigate hazards within work zones. Road Authorities are responsible for the safety of these motorists, and they must establish and enforce the rules and regulations that contractors should follow to design a safe work zone environment.

The Qatar Work Zone Traffic Management Guide is the applicable standard, which will be covered extensively in this course. We will also teach candidates how to design a safe work zone, and how to avoid safety hazards from arising on them. On this course, we will also examine and analyse the use of protection from crash barriers, impact attenuators, dynamic variable (changeable, electronic or dynamic) message signs, average speed check cameras, speed enforcement, and flagger operations and training.

Another important part of the “Work Zones” is the use of vertical signs and road markings, which will also be covered in depth on this course.

This training course is suitable for Road Agency Administrators, Highway and Street Engineers, Traffic Safety Professionals, Planners, Design Consultants, Law Enforcement Agencies, Researchers & Academics, Contractors, and Road Product Manufacturers, Suppliers & Distributors.

PRESENTERS: Eur Ing Miguel-Angel Serrano Santos

LEARNING OUTCOMES

- Understand that the Road Authority is responsible for the safety of its motorists in a work zone
- Understand the current status of work zone safety in Qatar
- Comprehend how to design a safe work zone for both motorists and workers
- Learn how to use the Qatar Work Zone Traffic Management Guide as well as the process to submit a traffic control plan for approval by the authorities
- Learn about concepts for work zone safety
- Design and characteristics of the vertical signs
- Properties and location of the road markings

DAY 1 –

08:30-10:30

Current Status of Work Zone Safety in Qatar

Qatar Work Zone Traffic Management Guide (Module 1)

- Introduction to Work Zones
- Objectives & Principles of Temporary Traffic Management
- Traffic Diversion Plan
- Processes
- Contingency Planning and Traffic Modeling
- Risk Management, Departures and Road Safety Audits
- Incident Management within Work Zones
- Emergencies & Unplanned Works

BREAK

11:00-12:30

Qatar Work Zone Traffic Management Guide (Module 2)

- Road Type and Speed Limit
- Work Types and Duration
- Pedestrians
- Work Zones at Night
- Temporary Speed Limits
- Speed Compliance
- Diversion Routes
- Access Points to the Road and Parking
- Multiple Work Zones
- Staging of Works
- Implementation and Clearance
- Maintenance

LUNCH

13:30-15:30

Qatar Work Zone Traffic Management Guide (Module 3)

- Work Zone Components
- Temporary Speed Limits
- Carriageway Narrowing and One-Way Operations
- Typical Layouts Overview
- Typical Layouts Examples and Discussion

15:30-16:00

Day 1 Wrap-up

DAY 2 –

08:30-10:30

Qatar Work Zone Traffic Management Guide (Module 4)

- Equipment
- Conflicts with Permanent Traffic Control Devices
- Temporary Traffic Signing
- Safety Barrier Warrants and Clear Zones
- Temporary Safety Barriers
- Traffic Channeling Devices
- Other Equipment

BREAK

11:00-12:30

Vertical Signs I

- Objectives of the vertical signs
- Characteristics
- Location

LUNCH

13:30-15:30

Vertical Signs II

- Hierarchy
- Reflectivity

15:30-16:00

Day 2 Wrap-up



DAY 3 –

08:30-10:30

Road Markings I

- Road Marking in the road safety context
- Interaction of the road markings with other factors

BREAK

11:00-12:30

Road Markings II

- Design of road markings
- Safety problems and solutions with road markings

LUNCH

13:30-15:30

Examples and test

15:30-16:00

Day 3

Workshop Conclusions & Certificates



INSTRUCTORS



Eur Ing Miguel-Angel Serrano Santos

Senior Road Safety Specialist, United Nations for Project Services (UNOPS)

Eur Ing Miguel-Angel Serrano Santos is a well-renowned Chartered Civil Engineer, who graduated from the University of Granada in Spain. At present he is working as a Senior Roads Safety Specialist for UNOPS. He was working previously with Ashghal (Public Works Authority), where he was responsible for managing and approving all Road Safety Audits, that were undertaken in Qatar.

He is a Chartered member of the Institution of Civil Engineers (ICE), Society of Road Safety Auditors (SoRSA), and the Chartered Institution of Highways and Transportation, and has over fifteen years of experience in transport planning and traffic engineering. Due to his extensive knowledge in the civil engineering discipline, he has successfully secured and delivered Road Safety projects internationally.

Miguel is also the Vice- President of ASEVI (Spanish Association of Road Safety Auditors), and has successfully helped to create a corroborative relationship between engineering professionals in different countries.

Lastly, Miguel has successfully delivered Road Safety courses to students and engineering professionals, and has been an active speaker at various conferences, seminars and universities internationally.