

# Software for Temporary Traffic Management for Road Works

8 – 12 March 2027  
Barcelona (Spain)

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## Software for Temporary Traffic Management for Road Works

**Ref:** 3256070\_360190 **Date:** 8 – 12 March 2027 **Location:** Barcelona (Spain) **Fees:** 5900 GBP

### Introduction

This intermediate-to-advanced course focuses on software-supported approaches to planning, evaluating and managing temporary traffic arrangements during road construction and maintenance works.

Participants will explore temporary traffic control systems, work-zone traffic flow, lane closures, traffic diversions, risk assessment, temporary signals, traffic-management layouts, incident management and emergency procedures. The course combines theory with computer-based practical exercises and realistic work-zone scenarios.

### Course Objectives

By the end of this course, participants will be able to:

- Understand software-supported temporary traffic management.
- Develop and evaluate temporary traffic management plans.
- Analyse traffic flow through road-work zones.
- Plan lane closures and traffic diversions.
- Evaluate temporary traffic control layouts.
- Assess work-zone traffic safety risks.
- Develop appropriate responses to work-zone incidents.
- Compare alternative traffic-management scenarios.
- Support safer and more efficient road-work traffic operations.

### Course Outlines

Day 1 - Digital Approaches to Temporary Traffic Management

- Fundamentals of temporary traffic management for road works.
- Role of software and digital tools in work-zone planning.
- Temporary traffic control systems and layouts.
- Traffic management plans and planning workflows.
- Key safety and operational considerations for road works.

Day 2 - Work-Zone Traffic Flow and Planning - Practical Application

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- Traffic flow through road-work zones.
- Lane closures and traffic diversions.
- Assessment of traffic disruption.
- Development of alternative work-zone scenarios.
- Practical Exercise: Develop and compare two lane-closure/diversion scenarios and evaluate their impact on traffic flow and safety.

#### Day 3 - Temporary Traffic Control Systems - Practical Application

- Temporary traffic signs and road markings.
- Cones, barriers and crash cushions.
- Temporary traffic signals and control systems.
- Evaluation of temporary traffic-control layouts.
- Practical Exercise: Develop and evaluate a temporary traffic-control layout for a road-work scenario.

#### Day 4 - Work-Zone Risk and Incident Management - Practical Application

- Identification of work-zone traffic risks.
- Traffic incidents during road works.
- Emergency procedures and response arrangements.
- Incident-management measures and traffic control.
- Practical Exercise: Analyse a work-zone incident scenario and develop an appropriate traffic-management and emergency response.

#### Day 5 - Integrated Work-Zone Traffic Management Case Study

- Developing a complete temporary traffic management plan.
- Integrating traffic flow, safety and risk considerations.
- Evaluating temporary traffic-control arrangements.
- Reviewing alternative work-zone management scenarios.
- Integrated Case Study: Develop and evaluate a complete traffic-management solution for a road construction or maintenance project.

## Why Attend This Course? Wins & Losses!

#### Wins:

- Improved temporary traffic management planning skills.
- Practical experience with work-zone traffic scenarios.
- Better understanding of lane closures and diversions.
- Stronger work-zone risk assessment capabilities.
- Improved ability to evaluate temporary traffic-control layouts.
- Better preparedness for work-zone incidents and emergencies.

#### Losses if Not Attended:

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- Greater reliance on manual work-zone planning.
- Limited ability to compare alternative traffic arrangements.
- Reduced ability to assess traffic disruption.
- Weaker integration of risk assessment into traffic planning.
- Reduced preparedness for work-zone incidents.

## **Conclusion:**

This course provides participants with an applied understanding of software-supported temporary traffic management, combining planning, traffic-flow analysis, risk assessment, temporary traffic-control systems and incident management to support safer road works.

## **Frequently Asked Questions FAQ**

### **1. Who should attend this course?**

Traffic engineers, road safety engineers, work-zone planners, transportation professionals and road construction and maintenance personnel.

### **2. Does the course cover temporary traffic control devices?**

Yes. It covers temporary signs, markings, cones, barriers, crash cushions and temporary traffic signals.

### **3. Does the course cover lane closures and diversions?**

Yes. Participants analyse and develop lane-closure and traffic-diversion scenarios.

### **4. Does the course include practical computer-based exercises?**

Yes. Days 2, 3 and 4 include practical exercises based on work-zone scenarios.

### **5. Is a specific software package required?**

No. The course focuses on software-supported planning and evaluation methodologies rather than a specific software package.

A graphic featuring a chessboard with several chess pieces (a king, a queen, and a pawn) and the text 'UK Training PARTNER' overlaid. The text is in a bold, sans-serif font, with 'UK Training' in a smaller size above 'PARTNER'. The background shows concentric circles emanating from the pieces.