

Introduction to Junction Design



Course Overview

A three-day course designed to provide an understanding of the principles and practice of designing priority, traffic signal, roundabout and mini-roundabout junctions. This course is aimed at a broad range of professionals who are involved in designing or assessing the adequacy of junctions.

The course consists of informal short lectures, practical workshops and discussion sessions, case studies and examples.

With this particular course there is an option to attend one or two of the days, depending on topics of interest.

Aims and Objectives

The aim of the course is to help delegates to understand the issues involved in designing and constructing junctions or junction improvements and to provide delegates with the knowledge, skills and understanding to carry out their professional roles.

The course provides the opportunity for delegates to network and consider the advantages and dis-advantages of different forms of junction and to provide advice to delegates on their own projects and improve their design and implementation skills.

Topics Covered

The topics covered within the three-day course are as follows:

Day 1	Priority Junctions
Day 2	Traffic Signals
Day 3	Roundabouts

Please see overleaf for a detailed breakdown of the topics covered on each day.



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Day One

Priority Junctions

- General principles of junction design
 - Design objectives
 - Selection of junction type
- Safety issues and designing for VRU's at junctions
 - Tactile paving layout
 - Gradients
 - Desire lines
- Principles of priority junction design
 - Typical layouts
 - Siting the junction
 - Geometric features
- Priority Junction Workshop

Day Two

Traffic Signals

- Principles of traffic signal control
 - Initial layout design
 - Signal positions
 - Road markings / signs
 - Facilities for right turns
 - Detection equipment
 - Calculating clearance periods (intergreens)
 - Understanding the drawings / symbols
- Traffic Signals Workshop

Day Three

Roundabouts

- Types of roundabout
- Principles of roundabout design
 - Geometric design
 - Road markings / signs
 - Segregated left turn lanes
 - Compact Roundabouts
- Principles of mini-roundabout design
 - Geometric design
 - Road markings / signs
- Roundabout Workshop

Certification

Delegates completing this course will receive a CPD certificate of attendance, recognised by both the IHE and CIHT.

Course Fees

For information on pricing please refer to the relevant [website](#) page.

Course fee includes all course handouts, CPD attendance certificate, lunch and refreshments.

The course fee does not include travel or accommodation.



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Booking

To make a booking on the course please choose from the following options (via our website):

- Download Booking Form
- Online booking

In-House Training

This course can be delivered in-house at your offices or at a suitable venue. In-house training can often work out more cost effective if you have several members of staff you would like to be trained at any one time.

If you would like a quotation or further information regarding our in-house training, please contact us on the details below.



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