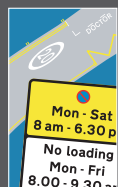




SIGNING



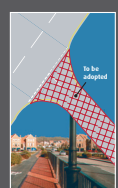
LINING



PARKING & ORDERS



ROAD SAFETY



HIGHWAYS



INVENTORY



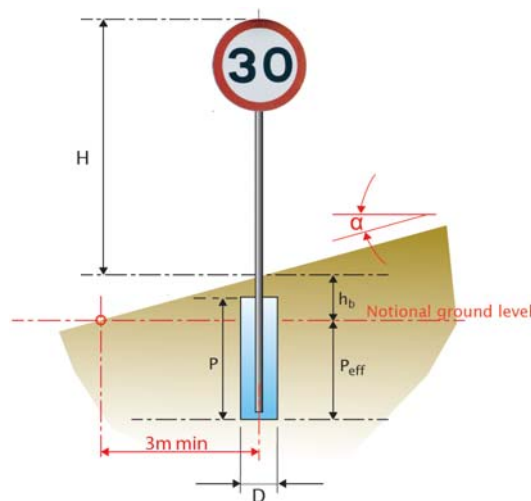
SURVEYS

## SIGN STRUCTURES & PASSIVE SAFETY

*A unique one-day training course*

### Supports, foundations and passive safety

Do you know your EN 12899 from your EN 12767? With the introduction of the new 2007 versions of these standards, and passive safety now being relevant to all roads, many designers of traffic signs would welcome more guidance on the structural aspects.



In this one-day course for non-specialists, Simon Morgan will cover the basic theory of sign support and foundation design and how to apply the new standards in practice. It is not specific to any one software package, but participants will be given a free copy of SignLoad Designer 2 to take away. Foundation design both to Highways Agency standard BD94/07 and BS8004 will be explained, as will factors affecting choice of substrate and spacing of channel sections.

Participants will undertake simple worked examples, to enable them to understand the theory and use of reference materials, and therefore correctly use computer software for actual design work.

Simon is a chartered civil engineer who specialised in structural engineering before embarking upon a career in traffic engineering and computing. He is a member of the BSi committee for traffic sign standards and edited the IHIE Sign Structures Guide.

### Course Details

Duration:	1 day (09.30 – 16.30)
Prerequisites:	A basic knowledge of sign construction would be helpful but not essential
Course material:	Notes provided

### Topics covered

- Introduction
- Basic structural theory
- Relevant standards and their UK National Annexes
- Safety factors
- Determining wind load
- Other actions on structures
- Support design to BS EN 12899-1:2007
- Basic soil mechanics and types of foundation
- Traditional spread foundations to EN 1997
- Planted foundations to Highways Agency standard BD94/07
- Passive safety requirements for BS EN 12767:2007
- Designing passively safe structures
- Review and questions

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