Designing for Buses in the Urban Environment

1 Day Programme

Overview

This course is will highlight common mistakes that can occur during the planning and design of bus interchanges and infrastructure. Exploring issues that may at first appear minor, but if not identified and addressed early can result in challenging and costly remedial work during the construction and post opening phases of the project.

Many of these design issues occur because those approving the design may lack the specialist knowledge of bus interchange requirements, vehicle manoeuvrability and transport operations. Taught through practical examples and case studies, the course will provide an introduction to the topic, allowing potential issues to be recognised and removed at the design stage enabling costly and time consuming issues to be avoided.

Who should attend

- Those who are responsible for the delivery and procurement of bus interchange or transport hub infrastructure
- Those involved in operating, planning and marketing services will also find value in this course

Topics covered

- ✔ How design issues occur
- ✔ Basic design requirements of bus stops, stands and bays
- ✔ Bus priority measures
- ✔ Design improvement
- ✔ Project management lifecycles
- ✔ Designing small town and large municipal interchanges
- ✔ Construction and Maintenance

Morning

Introduction and Course Objectives

How Design Issues Occur

- Examples of various design mistake and issues from actual interchange designs and builds
- Example of quantitative savings by improving designs

Designing the space for Buses to move

- Bus dimensions and turning dynamics
- Basic design requirements of bus stops, stands and bays

Workshop One

- Bus Stop and On-street Interchange

Designing for Passengers

- Basic requirements of the waiting environment
- Pedestrian Desire Lines
- Building Architecture

Designing for Drivers and Operators

- Staff facilities; safety, security and segregation; signage and documentation; entry/exit; layout testing; timetabling implications

Afternoon

Construction and Maintenance

- The roles of traffic engineers and construction consultants
- Drainage requirements and design
- Examples of damage due to water and bus dynamics

Bus Priority Measures

- The role of traffic planning engineers
- Quality Bus Corridors and other Bus Quality Schemes
- How traffic calming and bus priority schemes conflict

Workshop Two

- Small Bus Station

Workshop Three

- Larger Interchange

Project Management Lifestyle

- Project conception and initiation
- Project performance, control and close

Final Q&A & Close. Please note this is a preliminary programme and subject to change.

Learning Outcomes: On completion of the course, delegates will:

- Have an understanding of how and why design issues occur
- Have an understanding of how buses move and the space needed for manoeuvres
- Have an understanding of the various bus priority measures, their advantages and disadvantages and principles of effective design
- Have an understanding of the Project Management Lifecycle of a Bus Interchange Design
- Have an understanding of the different materials used for bus infrastructure, landscaping, maintenance implications and ongoing costs
- Have a firm understanding of the main types of urban bus infrastructure design – bus stop, bus stand, on-street interchanges, small bus station and large interchanges

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