



PDS Training Courses



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Introduction Part 1

This two day course is designed to provide basic training to enable productive use of our Design Suite software by Engineers and Technicians.

By the end of this course you will have a solid foundation and working knowledge of the software.

Prerequisites None

Audience This course is for new users or those who have not used the software for some time who are looking for grounding in the latest version and techniques. Design Engineers, Technicians and anybody else in your team on the front line of the engineering design should attend as well as Project Managers and Team Leaders who would also gain by having a working knowledge of the strengths and capabilities of the Design Suite software.

Length 2 days

Course Content

Day 1

Section 1: General Introduction

- The PDS folder structure & database
- User Interface

Section 2: Ground Modelling

- Inputting Survey Data
- Formation and Basic Editing
- Contour Generation
- Profiles
- Batters
- Basic Volumetric Calculations

Section 3: Alignment Design

- Horizontal Design
- Vertical Design

Day 2

Section 1: Alignment Design Continued

- Carriageways
- Junctions and Turning Heads
- Features
- Cross Sections
- Annotation
- Setting Out Information

Section 2: Drainage Design

- Storm and Foul Layout
- Export/Import to Windes
- Drainage Profiles
- Annotation
- Manhole Schedules

Section 3: Drawing Production

- Export of final design to AutoCAD

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Introduction Part 2

This one day course is designed to expand on the techniques learnt in the Introduction Course Part 1 to help you become more productive and profitable.

By the end of this course you will have knowledge of working with advanced techniques and functionality of PDS.

Prerequisites Attendees for this course should have previously attended the Introduction Part 1 course.

Audience This course is aimed at those who have attended the Introduction Part 1 course, gained practical use and are now looking to extend their knowledge and learn some of the more advanced aspects.

Length 1 day

Course Content

Section 1: General Introduction

Section 2: Ground Modelling

- Editing Existing Models
- Advanced Volumetric Calculations
- Isopachyte Contouring
- Composite Modelling
- Visualisation
- Surface Design

Section 3: Alignment Design

- Advanced Carriageway Design
- Road Construction Design
- Scheme Design Change
- Output Customisation
- Alignment Digital Models
- Visibility Sightlines
- Vehicle Swept Path Analysis

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Ground Modelling

This one day course is designed to illustrate effective use of the PDS Suite of Software to create and analyse digital ground models.

By the end of this course you will have a good working knowledge of the Ground Modelling module of the Design Suite.

Prerequisites None

Audience This course is aimed at users whose main focus is Terrain Modelling.

Length 1 day

Course Content

Section 1: General Introduction

- The purpose and scope of the course
- The PDS database
- The User Interface

Section 2: Data Import and Model Creation

- Types of Usable Data
- Validation of Data
- Formation and Basic Editing
- Surface Design
- Batters

Section 3: Model Analysis

- Contour Generation
- Profiles
- Fall Arrows and Flow Trace
- Editing Existing Models
- Volumetric Calculations
- Isopachyte Contouring
- Composite Modelling
- Settlement Modelling
- Visualisation

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Advanced Alignments

This one day course is designed to instruct users familiar with ordinary alignment design in the methods of utilising the PDS Suite of Software to design highways and roundabouts.

By the end of this course you will have an appreciation of the tools used for more advanced road design.

Prerequisites Attendees for this course must have a good working knowledge of the standard alignment design tools contained within the PDS Suite.

Audience This course is aimed at Design Engineers & Technicians who have attended the Introduction Part 1 and Part 2 courses and are now looking for exposure to specific advanced design modules.

Length 1 day

Course Content

Section 1: General Introduction

Section 2: Highway Design

- Horizontal Design using Transitions
- Superelevation Application
- Crossfall Amendment
- Dual Carriageway
- Output Customisation

Section 3: Roundabout Design

- Horizontal Design of Crowns
- Vertical Design using ADF
- Channel Design
- Splitter Island Design
- Visualisation Model
- Cross Sections
- Setting Out Information

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Drainage

This one day course is designed as a comprehensive study of all aspects of the Adoptable Drainage module (PDD) and also the Private Drainage (PPD). Also contained within the course is a detailed examination of the integration between PDS and WinDes including the transfer of triangle models to WinDes for FloodFlow analysis.

By the end of this course you will be able to input drainage layouts, produce sections, schedules and be conversant with all other PDS commands used when producing a drainage design using PDS.

Prerequisites Attendees should have completed either the Introduction Part 1 or Ground Modelling course.

Audience This course is for the modern drainage engineer who wishes to use the Design Suite to produce cost effective, sustainable drainage design.

Length 1 day

Course Content

Section 1: General Introduction

- The purpose and scope of the course

Section 2: Drainage Layout Design

- Inserting Drainage Networks
- Loading the Network
- Exporting the Network to WinDes
- Brief Guide to Hydraulic Design
- Importing the Design From WinDes
- Clash Checking

Section 3: Annotation

- Annotating the Plan
- Adding Drainage Details to Alignment Profiles
- Creating Profiles Along Drainage Runs

Section 4: Output

- Producing Manhole Schedules
- Producing Schedules of Drainage and Excavation Quantities

Section 5: Utilities and Editing

- Utilities
- Editing a Drainage Network

Section 6: PDS/WinDes Integration

- The Transfer Process Explained in More Detail
- Exporting Ground Models to WinDes and Viewing in the WinDes Simulation / FloodFlow Module

Section 7: Private Drainage

- Private Drainage Layout
- Private Drainage Design
- Producing Schedules of Private Drainage Entities

PDS Sign

This one day course is designed to give you maximum return on your investment in PDS Sign by minimising the learning period for new users, providing an insight into the fundamental design rules in Chapter 7 of the Traffic Signs Manual, and showing experienced traffic sign designers how to maximise their output using the software.

Prerequisites Attendees should have a reasonable working knowledge of AutoCAD. Some familiarity with Chapter 7 of the Traffic Signs manual would also be useful.

Audience: This course is for new users who are looking for grounding in the latest version of PDS Sign. Design engineers and technicians working in Civil Engineering, Highways and Traffic departments together with anyone else involved in Sign Face design should attend.

Length 1 day

Course Content

Section 1: Introduction

- General Principles of Sign Face Design
- Tiles, X-Heights & Stroke Widths
- Overview of Traffic Signs Manual & TSRGD 2002
- Map type advance direction signs - roundabouts & other junctions
- Dedicated lane type signs
- Route confirmatory signs
- Motorway signs including gantry mounted
- Parking & loading restriction time plates – use of PDS wizards

Section 2: PDS Sign interface

- PDS User Interface
- Methodology for Sign Face Design
- Special characters & other tips

Section 3: Student exercises

- Standard warning/ regulatory signs & supplementary plates
- Adding dimensions, detail blocks & colour fills
- Directional signs - fingerpost, flag & rectangular plates
- Stack type advance direction signs

Section 4: Structural calculations

- Overview of Sign Structure calculation tool
- Post and foundation design – student exercises

Section 5: PDS outputs

- Exporting sign structure data to Excel
- Showing Signs on a Site Plan