

# Learning Civil 3D for Surveyors

**Description:**

**Duration: 2 days**

**Course Objectives:**

To equip, empower and help kick-start surveyors in surveying design and drafting through hands-on exercises and lectures covering all the surveying functionalities within Civil 3D. It is a 2-day dedicated training to cover extracting survey points from various surveying equipment, manipulating the data, adjusting surveying parameters, import/export of various data sources, generating surfaces, labelling ground data, grading objects, site creations, lot layouts and production of project reports/tables. This course is designed to teach the essential Civil 3D concepts and applications to guide surveyors in producing quality survey design output for their clients.

**Who Should Attend & Prerequisites:**

Surveyors and Civil Drafters/Designers involve in earthworks calculation and subdivision design with a basic knowledge of AutoCAD is required to attend this course



## Civil 3D Essentials for Surveyors Course Outline:

### Working with Survey

- Survey Database
- Survey Network
- Figure Styles and Prefixes
- Field Book
- Points

### Working with Point Data

- Importing Points
- Manage/Edit Points
- Label Points
- Table/Report for Points
- Description Keys
- Point Groups

### Surface Modelling

- Create Surface
- Surface Analysis  
(Contours/Triangulation/Catchment  
Areas/Elevation/Slopes/3D View)
- Surface Labelling (Contours/Levels/Slopes)
- Surface Reports
- Surface Edits
- Manage Surface  
(Breaklines/Borders/Merging Surface)
- Various Data Sources to Generate Surfaces

### Site Development

- Site Concept
- Lot Layout and Edits
- Lot Road Reserve
- Lot Labels
- Lot Subdivision
- Lot Tables and Reports

### Grading

- Featurelines and Footprint
- Grading Object
- Grading Criteria
- Grading Groups
- Earthworks Calculation
- Surface Creation
- Grading Annotation

