

15 Moyville Lawns
Taylor's Lane
Rathfarnham
Dublin 16
Ireland

Tel: +3531 4958714/5/6
Fax: +3531 4958717

Email: sales@atlascomputers.ie
support@atlascomputers.ie

Web: www.atlascomputers.ie

Training Seminar: Topographic Survey Specification for Urban Projects

The 'Topographic Survey Specification for Urban Projects' published by the Quality Bus Network Project Office is a new specification designed to address the demanding needs of engineering design in a tightly constrained urban environment, in terms of consistency, accuracy, re-usability, and quality. The specification has been developed by a multi-disciplinary working group, hosted by Dublin City Council, over a two year period, including representation from survey contractors, survey consumers, the LGCSB, IIS, and SCS. It has been proven over the course of this period in a number of major projects by DCC QBN office.

Following on from the positive response from industry and the keen interested in a national adoption of the specification, Atlas Computers Ltd has developed a training course specially designed for survey clients who are implementing the specification and contractors who are working to the specification.

The overall aim of the training course is to examine the specification and to understand the technical aspects so that the specification can be easily put in place, verified and audited by the client, and achieved and certified by the contractor. Particular emphasis is placed on quality assurance and traceability, and the tools and means of achieving high quality are highlighted.

The course is presented in six modules (as detailed below) with printed course material provided. Digital data is provided for modules 4 and 5 to allow for in-depth analysis and discussion. Laptops can be provided on request.

The 1 Day Courses are currently being held in Dublin during June and July costing €300 per person (excl. VAT). However, additional courses are being planned in other national locations. Each course has a maximum number of 6 people. In addition, Atlas Computers Ltd offer advanced customised training whereby specific client data is examined and the course is developed based on specific customer needs. Rates are available on request.

If you would like further information or to participate in one of the training courses please fill out details below and fax back to 01 4958717. Alternatively contact Áine Martin or Rhona Byrne at 01 4958714.

Contact Name: _____
Compnay / Organisation: _____
Contact Number: _____
Date: _____

	No. Of People
<input type="checkbox"/> I wish to participate in the 1 Day Training Seminar: Topographic Survey Specification for Urban Projects	<input type="checkbox"/>
<input type="checkbox"/> I would like further information on the 1 Day Training Seminar: Topographic Survey Specification for Urban Projects	<input type="checkbox"/>
<input type="checkbox"/> I would like further information on Atlas Customised Training Days	<input type="checkbox"/>

Training Seminar Modules: Topographic Survey Specification for Urban Projects

Module 1: Introduction & Background

- **The need for a new specification:** (inconsistent quality of surveys, rework by engineer, additional expense and time loss)
- **Development and enforced consistency**
- **Defining Scope of Specification**
- **Working Group**

Module 2: Specification

- **Objectives of Specification**
- **Components of Specification**
- **Analysis of Specification:**
 - Project Information** (scale, constraints, area/extent, survey records),
 - Land Survey** (measurements, horizontal and vertical control in terms of grid, accuracy, reporting, observations and adjustments, use of static GPS, topographic detail and survey reporting),
 - Survey Data Content** (Feature Library & Naming Conventions, Ground Model Standards Presentation and Quality Assurance, Digital Data Formats – AutoCAD, Microstation, MX, Presentation of Results)

Module 3: Compliance & Auditing

- **Independent Check Surveys**
- **Audit of Digital Data**
- **Coordinate Transformations**
- **Survey Data Processing**
- **Check Surveys:** (Aim, area, control / topography, Determination of errors within the check survey, Analysis of accuracies and topography, Stations)

Module 4: User Guide: Implementation of Specification**

- **Transformations ITM / IG75**
- **Feature Naming Convention:**
 - Development of Code tables** for PocketDTM, Leica and Trimble instruments
 - In-depth examination of MX style sets**
 - Examination of symbols and DTM status**
 - Model Editing & Cartography** (String & Text Editing, Rotation and placement of symbols)
- **Quality Checks for Survey Client & Contractor:**
 - Correction and checking for ambiguous elevations**
 - Examination of spurious data:** (duplicate points, broken or incorrectly formed strings)
 - Reporting of errors**
- **Verifying the TIN**

Module 5: Presentation, Exports & Deliverables**

- **Scale**
- **AutoCAD Export, Microstation & MX**
- **Reporting:** (Traverse Report, Levelling Report, Diagram of GPS Network, Diagram of Traverse, Report, PGM Diagram, Schedule of Computer Files Provided / Surveying Equipment Used / Processing Software Used, Instrument Set-up Report)
- **Digital Signing**
- **Compliance**

Module 6: Questions & Answers

** sample digital data is provided for use during this module