DATRAN™ Training

Introduction to DATRAN

Course Overview

DATRAN TRAINING & CERTIFICATION - OVERVIEW

QTech Data Systems Ltd supports a large number of DATRAN users across New Zealand. Many Local Authorities receive field support from preferred contractors and integrators, with QTech's endorsement.

There is a growing requirement in the Local Authority market for maintainers and operators of the SCADA and telemetry systems to be trained and certified by the manufacturer.

QTech has developed a training programme suitable for both new and existing contractors and integrators.

To best suit the diversity of electrical contractors, integrators and users, three training options are available.

Course 1 and 2 are suitable for users with little or no familiarity with DATRAN. The course provides a background to SCADA and telemetry and introduces the DATRAN product range.
Course 2 is specifically aimed at regular users of the DATRAN software and those with a working knowledge of computers.
Course 3 and 4 are for the experienced user with a significant amount of field experience and high levels of IT literacy.
Course 3 and 4 can lead to DATRAN certification by successfully passing the associated exam.

1. Training Course - DATRAN Product Overview
- Introduction to DATRAN hardware
- Overview of DATRAN VI SCADA Software

2. Training Course - DATRAN Operator Training
- Brief overview of DATRAN VI SCADA Software
- Detailed use of Supervisor, Trending and GUI packages
- Alarm management, data analysis, data exporting etc

3. Certification - DATRAN Telemetry Hardware
- DATRAN telemetry hardware
- Hardware interfaces
- DATRAN telemetry installation and maintenance
- System integration

4. Certification - DATRAN VI SCADA Software
- DATRAN VI – installation, operation and use
- Advanced configuration of DATRAN VI
- System diagnostics and fault finding

INTRODUCTION TO DATRAN - LEARNING OBJECTIVES

Upon successful completion of the training course the attendee will:

❑ Have a basic appreciation of installing and wiring of the hardware

❑ Have an understanding of the diagnostic and configuration tools available

❑ Have an overview of telemetry and SCADA systems

❑ Have an appreciation of the communication methods available

❑ Have an awareness of the input and output capabilities

❑ Have a basic application knowledge of where and when the hardware will be used

❑ Have an appreciation of the hardware diagnostic tools and indicators

❑ Have an appreciation of the SCADA system connectivity and LAN

❑ Have a familiarity of alarms via DATRAN Supervisor

❑ Have a familiarity of DATRAN Trending for viewing historic data

INTRODUCTION TO DATRAN - AGENDA

The Introduction to DATRAN will cover the topics listed below to ensure the learning objectives are achieved. Although all topics will be covered, no specific times have been allocated, to allow flexibility and additional coverage of topics if needed by attendees.

All the sessions are interactive and much of the course will be practical with question-and-answer sessions.

Overview

- Current hardware (QRTU, DATRAN II eXcel)
- Associated components
- Inputs and outputs

Telemetry Communications

- Radio
- Cellular
- SMS
- Dial up
- TCP/IP and RS485 IPB

Applications

- Where to use DATRAN
- Examples of applications

DATRAN VI Software

- Introduction
- Alarm displays
- Remote access
- Historical Trending of data

Questions and Answers

- Specific Technical Questions, throughout the course
- Specific Field Customer Questions, throughout the course

COURSE CONCLUSION

APPENDIX A – COURSE LOGISTICS

The training programme is usually held at QTech's offices in Christchurch.

> 12 Midas Place
> Middleton
> Christchurch
> Telephone 03 3663713

Please check the "about us" tab on www.qtech.co.nz for a detailed map.
From Blenheim road, turn into Annex Road and Midas Place is the first left.

The training day is from 9.00am to 5.00pm.
Lunch is one hour from approximately 12.30 to 1.30pm.
There are 15 minute refreshment breaks in the morning and afternoon.

The training programme includes lunch, morning and afternoon teas.

Please download and print the training notes from the website and bring them to the course with you.
This material is ideal for pre-course study and will help ensure you maximise the value of the course.

To avoid any inconvenience upon your arrival, if you would like us to print some or all of the course notes and manuals for you, we will do so.
Please let us know prior to your attendance, which you would like printed, and any appropriate charge will be added to your invoice.

All evening meals, accommodation and travel expenses are the responsibility of the course attendee.

QTech can provide transport to and from Christchurch international airport if required.