Course Abstract:
In this hands-on course the attendee will learn how to use ClearSCADA to build a simple Human Machine Interface (HMI) between a PC and a SCADAPack Remote Terminal Unit (RTU.) While building the system, the student learns about many facets of ClearSCADA, including installing the software, manipulating the database, creating user interfaces, using templates to quickly create large systems, trending, security, and many others.

Audience:
- SCADA systems integrators.
- End users who want to maintain their own ClearSCADA system
- End users who want to understand the inner workings of their ClearSCADA system.
- RTU programmers who are interested in learning how to better design their RTU programs to interface to ClearSCADA efficiently.

Prerequisites
There are no formal prerequisites to this class. An understanding of SCADA concepts like analog and digital inputs and outputs, polling, RTUs and HMI design is useful. Familiarity with Microsoft Windows is also beneficial.

What to Bring
You will need to bring a Laptop running Windows 7 or Windows 8 with full administrative rights. You will need to be able to install software, configure Windows firewall, and potentially disable antivirus on your laptop.

Objectives:
After completion of this course the learner will be able to:
- Install and configure ClearSCADA servers and clients.
- Configure ClearSCADA to retrieve data from field devices.
- Configure ClearSCADA to control field devices.
- Create HMI screens in ClearSCADA that allow users to view data from and control field devices.
- Use templates to quickly design large systems.
- Create visualisations for data, like graphical trends.
- Configure ClearSCADA for alarm callouts.
- Configure ClearSCADA security.
Topical Outline:
This course consists of the following lessons:
- Software Installation.
- Introduction to the ViewX Client.
- Database Organisation
- Creating Display Screens
- Embedded (Reusable) Display Screens
- Displaying Point Data Graphically (Trends)
- Templates and Instances
- Structured Text Scripting
- Security
- WebX Client
- Server Configuration
- System Architectures
- Reporting
- Client Side Scripting
- Alarm Redirection (Callouts)

Course Agenda:
Day 1:
- Introduction
- Software installation
- Database Organisation
- Creating Display Screens

Day 2:
- Reusable Display Screens
- Displaying Point Data Graphically (Trends)
- Templates and Instances

Day 3:
- Structured Text Scripting
- Security
- WebX Client
- Server Configuration
- System Architectures

Day 4:
- Reporting
- Client Side Scripting
- Alarm Redirection (Callouts)
- Question and answer, course review

Course Length
4 Days

Course Code:
TRSCLS14E

Course Tuition:
$2100.00

Maximum Class Size:
10 Students