

Citect Courses

Specialized education to help you fully utilize your CitectSCADA solution



All our intermediate and advanced courses can be delivered onsite at your office/plant. Citect also offers self-paced education kits and customized courses. Book online or by contacting your local representative.

www.citect.com/education

Citect
Educational
Services

Citect Educational Services



Citect Educational Services provides multi-level courses for end users, engineers and system integrators.

All authorized courses have a limited number of attendees to ensure participating students get the most out of each course and access to an experienced Instructor.

Each student is allocated with a PC which is pre-configured with relevant applications and other software needed throughout the course.

Benefits

- Assure the future of your CitectSCADA system
- Minimize downtime and business interruption
- Network with peers and share experiences of working with CitectSCADA

Bookings

Courses can be booked online at www.citect.com/education or by contacting your local Representative.



Citect Educational Services offers a suite of programs and courses designed for end users, engineers, system integrators, technical colleges, universities and educational establishments. Our courses provide you with hands-on experience, leaving you feeling confident to design and configure your own systems whilst our programs are designed to facilitate the latest education and application of CitectSCADA software.

Courses include instructor led, online and onsite offerings for the suite of CitectSCADA software and related complementary software products. Courses include configuration and programming courses, update courses, and introductory courses for CitectSCADA, CitectHistorian and CitectFacilities solutions.

Programs include the Citect Educational Center Program which regulates the standard of Citect courses. The Academic Program provides tertiary institutions with access to world class courseware to use in conjunction with their degree and diploma courses in related fields. The Citect Certified Engineer (CCE) Program recognizes engineers skilled in the integration of Citect based automation projects. To become a Citect Certified SCADA Engineer (CCSE), there are four exam elements that must be achieved: Configuration, Cicode, Networking and Design.

Our educational methodology has been proven effective through thousands of hours of instruction. Feedback received from customers confirms our success and drives continuous development in services offerings. We have implemented a guided stream of learning that facilitates progression from basic through to advanced knowledge of all Citect products.

ONSITE!

When and where you need it

Run a course onsite at your premises or at your chosen location, allowing your organization to educate more employees and save travel time and expenses.

CitectSCADA Configuration

Course overview

Gain insight into CitectSCADA project design and become familiar with configuration techniques. This interactive course includes practice with plant control, data collection, trending and reporting.

Audience

- Those who want to become familiar with CitectSCADA project development techniques
- CitectSCADA users including engineering staff, maintenance staff and plant supervisors
- Technical users who maintain and improve their installed CitectSCADA and control systems
- Managers who want more than a basic understanding of CitectSCADA
- CitectSCADA System Integrators and Designers

Learning outcomes

- Learn about Citect's monitoring and control system
- CitectSCADA Configuration environment
- How to set up a new project using the most common features in CitectSCADA systems
- Troubleshooting
- Communicating with I/O Devices (PLCs)
- Creating graphics pages
- Introduction to alarm, trend and report systems

Course outline

Introduction to CitectSCADA, Alarms, Citect Explorer, Creating a Navigation System, Managing Projects, Devices, Events, Trends, Process Analyst, Setting up Communications, Reports, Graphics, True Color, Security, Commands & Controls, Genies, Popup Pages, Introduction to Cicode, Troubleshooting CitectSCADA.

Precursors

It is essential that students are familiar with Windows operating systems. Experience in PLC control system design and/or programming is desirable.

Certification

The CitectHMI/SCADA Configuration course will help prepare candidates for the Citect Certified SCADA Engineer (CCSE) Configuration exam. Candidates who pass the exam will achieve the Citect Certified SCADA Professional (CCSP) qualification.

Course materials

All students will receive a full education pack which includes:

- Citect compendium
- Citect mouse pad
- Citect pen
- Note pad
- Memory stick
- CitectSCADA DVD

Learning Progression

The CitectSCADA Configuration course is a precursor for both the CitectSCADA Networking and Architecture course, the Cicode Programming course and the Customisation and Design Course.

Course Level



Intermediate

⊕ 3 DAYS
(refreshments and lunch provided)

CitectSCADA is designed to provide industrial companies of all sizes with the most reliable and agile control over both engineering and runtime operations.

Cicode Programming

Course overview

Learn about basic programming techniques using the Cicode programming language in this interactive course. This course is aimed at users who have had no programming experience. It is also useful for experienced users who wish to become familiar with Cicode.

Audience

- Programmers and non-programmers who want to become familiar with the Cicode language
- CitectSCADA System Integrators and Designers
- Technical users who maintain and improve their installed CitectSCADA and control systems

Learning outcomes

- Fundamentals of programming: setting variables, commands, conditional executors
- Introduction to Cicode: Cicode functions, Cicode Editor environment, Cicode debugger

Course outline

Introduction to Cicode, Variable Operators, Cicode Editor, Cicode Functions, Conditional Executors, Advanced Cicode Functions, Cicode Debugger.

Precursors

It is essential that students are familiar with Windows operating systems. It is also recommended that students attend the CitectSCADA Configuration course prior to attending Cicode Programming or have a good working knowledge of CitectSCADA. An understanding of PLC communication is recommended.

Certification

The Cicode Programming course will help prepare candidates for the Citect Certified SCADA Engineer (CCSE) Cicode exam.

Course materials

All students will receive a full education pack which includes:

- Citect compendium
- Citect mouse pad
- Citect pen
- Note pad
- Memory stick
- CitectSCADA DVD

Learning Progression

The Cicode Programming course is a precursor for the CitectSCADA Customization and Design course.

Course Level



Intermediate

⊖ 2 DAYS

(refreshments and lunch provided)

Cicode is a compiled multi-tasking programming language written for the control environment. It's easy to use and offers the unmatched flexibility, reliability and performance.

CitectHistorian Configuration

Course overview

CitectHistorian takes information gathered from your SCADA system and makes it available for display in industry standard applications. This course is designed for engineers who wish to configure and maintain a CitectHistorian project and managers who wish to analyze the data in the client tools.

Audience

- People who want detailed knowledge on how to set up and use CitectHistorian
- Managers who require knowledge of how to use CitectHistorian Client Tools to access data
- CitectSCADA System Integrators and Designers

Learning outcomes

- How to set up CitectHistorian with a SCADA system
- Learn how CitectHistorian stores, transfers and displays data from SCADA data sources to connected databases

Course outline

Installation, Connecting to HMIs, SQL Server, Publishing Data, Historian, Backfill Manager, Security, Backup and Restore, Active Project, Tasks, Events, CitectHistorian Web Server Client, Excel Client, Statistical Analysis Using Excel, SQL Server 2005 Reporting Services, Publishing Data.

Precursors

Solid experience in both the Windows operating system and CitectSCADA.

Certification

None

Course materials

All students will receive a full education pack which includes:

- Citect compendium
- Citect mouse pad
- Citect pen
- Note pad
- Memory stick
- CitectSCADA DVD

Learning Progression

None.

Course Level



Intermediate

⊖ 3 DAYS
(refreshments and lunch provided)

CitectHistorian provides open and powerful historian performance with accessible, easy-to-use and secure reporting.

CitectFacilities Configuration

Course overview

Gain insight into Facilities project design and become familiar with configuration techniques. This interactive course includes practice with plant control, data collection, trending and reporting.

Course Level



Intermediate

⊕ 3 DAYS
(refreshments and lunch provided)

Audience

- Those who want an introduction to CitectFacilities
- First time CitectFacilities users including facility managers and facility maintenance staff
- Technical users who maintain and improve CitectFacilities installations and control systems
- Building or site managers who want more than a basic understanding of CitectFacilities
- CitectFacilities System Integrators and Designers

Learning outcomes

- Learn about CitectFacilities monitoring and control system
- CitectFacilities Configuration environment
- How to set up a new project using the most common features in CitectFacilities systems
- Troubleshooting
- Communicating with I/O Devices (PLCs)
- Creating graphics pages
- Introduction to alarm, trend and report systems
- Configuring CitectFacilities Scheduler

Course outline

Introduction to CitectFacilities, Alarms, Citect Explorer, Creating a Navigation System, Managing Projects, Devices, Events, Trends, Process Analyst, Setting up, Communications, Reports, Graphics, True Color, Security, Commands & Controls, Genies, Popup Pages, Introduction to Cicode, Troubleshooting CitectFacilities, Scheduler.

Precursors

It is essential that students are familiar with Windows operating systems. Experience in PLC control system design and/or programming is desirable.

Certification

None.

Course materials

All students will receive a full education pack which includes:

- Citect compendium
- Citect mouse pad
- Citect pen
- Note pad
- Memory stick
- CitectSCADA DVD

Learning Progression

The CitectFacilities Configuration course is a precursor for both the CitectSCADA Networking and Architecture course, the Cicode Programming course and the Customisation and Design Course.

CitectFacilities provides the freedom to select the best-in-class solution for each function but all your systems will still work together smoothly.

CitectSCADA Networking and Architecture

Course overview

Gain advanced skills including knowledge of the principles behind networking in CitectSCADA, such as how CitectSCADA uses a network, redundancy and distributed servers.

Learn more about the Citect Kernel and connecting to CitectSCADA remotely through the Web Client.

Course Level



Advanced

⊕ 2 DAYS
(refreshments and lunch provided)

Audience

- Network administrators who need to understand how CitectSCADA is configured on their network
- CitectSCADA System Integrators and Designers
- Technical users who maintain and improve their installed CitectSCADA and control systems

Learning outcomes

- Understanding and implementing Networked Server and full System Redundancy architectures
- How to use and implement Web Client
- How to set up a CitectSCADA network
- How and why Global Clients are used
- Understand the publish - subscribe model of communications
- How to implement Windows Integrated Security

Course outline

How CitectSCADA Uses a Network, Clustering, Online Changes, Distributed Servers, Citect Kernel, Redundancy, Global Display Client, Web Client, Publish-Subscribe model of Communications and Windows Integrated Security.

Precursors

It is essential that students are familiar with Windows operating systems. It is also recommended that students have attended a CitectSCADA Configuration course or have at least six months experience in CitectSCADA design.

Certification

The CitectSCADA Networking and Architecture course will help prepare candidates for the Citect Certified SCADA Engineer (CCSE) Networking exam.

Course materials

All students will receive a full education pack which includes:

- Citect compendium
- Citect mouse pad
- Citect pen
- Note pad
- Memory stick
- CitectSCADA DVD

Learning Progression

Master Classes, Customized Courses and Product Upgrade Seminars.

CitectSCADA Customization and Design

Course overview

This interactive course will give you insight into the principles behind customizing CitectSCADA. You will be using different programming techniques including Cicode and VBA. In addition, you will learn about the Citect Kernel and exchanging data between CitectSCADA and other applications such as Microsoft Access and Excel.

Audience

- Advanced Programmers
- CitectSCADA System Integrators and Designers

Learning outcomes

- Tailor the CitectSCADA system for the look and feel of your organization
- Enable integration of development tools and applications, e.g. use MS Excel to assist with graphics page development
- Connect CitectSCADA to other applications using ODBC
- Configuring ActiveX Controls within CitectSCADA
- Create interactive forms
- Advanced Process Analyst configuration

Course outline

Advanced Genie and Supergenie Techniques, Custom Forms, Custom Templates, Graphics Builder Automation Interface, Exchanging Data with Other Applications, Citect Kernel, Debugging, Custom Alarm Filtering and Table Maths, True Color and Process Analyst.

Precursors

It is essential that students are familiar with Windows operating systems. Students must also have attended the CitectHMI/ SCADA Configuration course and either a Cicode Programming or CitectSCADA Networking and Architecture course or have at least six months experience in CitectSCADA design and programming.

Certification

The CitectSCADA Customization and Design course will help prepare candidates for the Citect Certified SCADA Engineer (CCSE) Design exam.

Course materials

All students will receive a full education pack which includes:

- Citect compendium
- Citect mouse pad
- Citect pen
- Note pad
- Memory stick
- CitectSCADA DVD

Learning Progression

Master Classes, Customized Courses and Product Upgrade Seminars.

Course Level



Advanced

⊖ 3 DAYS
(refreshments and lunch provided)

CitectSCADA Upgrade

Course overview

Receive an update to CitectSCADA project design and configuration techniques, and view the newest product features.

Course Level



Advanced

⊖ 2 DAYS
(refreshments and lunch provided)

Audience

- Those who need to know about new product features in the latest version of CitectSCADA
- CitectSCADA System Integrators and Designers
- Technical users of existing CitectSCADA systems

Learning outcomes

- How to carry out an upgrade
- All the new features in the latest product version: Visit www.citect.com/education for details on this course

Course outline

Visit www.citect.com/education for details on this course.

Precursors

It is essential that students are familiar with Windows operating systems. At least 2 years experience in CitectSCADA design is required.

Certification

The CitectSCADA Upgrade course will help prepare existing Citect Certified SCADA Engineers (CCSEs) for the CCSE Upgrade exam.

Course materials

All students will receive a full education pack which includes:

- Citect compendium
- Citect mouse pad
- Citect pen
- Note pad
- Memory stick
- CitectSCADA DVD

Learning Progression

The CitectSCADA Upgrade course is a precursor for any subsequent course the student wishes to enrol in if they are new to the latest version of CitectSCADA.

CitectSCADA Overview (Online)

Course overview

Gain insight into CitectSCADA project design and become familiar with configuration techniques. This online, interactive course includes practice with plant control, data collection, alarms and trends.

Course Level



Basic

⌚ 2-4 HOURS

Audience

- Prospective users of CitectSCADA
- Those who want an introduction to CitectSCADA

Learning outcomes

- Fundamentals of CitectSCADA systems

Course outline

Interface, Managing Projects, Communications, Graphics, Alarms, Trends, Commands, Process Analyst, Computer Roles and Licences.

Precursors

It is essential that students be familiar with Windows operating systems. No experience in automation products, PLC control system design and/or programming is necessary.

Certification

None.

Course materials

None.

Learning Progression

CitectSCADA Configuration course.



CitectSCADA is the system of choice when you require a reliable, flexible and high performance system for any industrial automation monitoring and control application.

CitectFacilities Overview (Online)

Course overview

Gain insight into CitectFacilities project design and become familiar with configuration techniques. This interactive course includes practice with CitectFacilities, our monitoring and control system for building automation and facilities management.

Course Level



Basic

⌚ 2-4 HOURS

Audience

- Those who want to become familiar with CitectFacilities project development techniques
- First time CitectFacilities users, including sales staff, administration staff, technical users who wish to evaluate the software prior to purchase

Learning outcomes

- Fundamentals of CitectFacilities systems

Course outline

What is CitectFacilities?, Reports Components, Reports Server Wizard, Reports Server Manager, Publishing Data, Historian, Configuring Tags, Security, Viewing Data in the Excel Client, Historian Interpolation.

Precursors

It is essential that students be familiar with Windows operating systems. Experience in PLC control system design and/or programming is desirable.

Certification

None.

Course materials

None.

Learning Progression

CitectSCADA Configuration course.



CitectFacilities provides the freedom to select the best-in-class solution for each function but all your systems will still work together smoothly.

CitectHistorian Overview (Online)

Course overview

Gain insight into CitectHistorian project design and become familiar with configuration techniques. This online interactive course includes practice with CitectHistorian, a tool that takes information gathered from your SCADA system and makes it available for display in industry standard applications.

Course Level



Basic

⌚ 2-4 HOURS

Audience

- Prospective users of CitectHistorian
- Those who want an introduction to CitectHistorian

Learning outcomes

- Fundamentals of CitectHistorian systems

Course outline

Reports Components, Setting up the Server, Publishing Data, Historian, Configuring Tags, Security, Viewing Data in the Client.

Precursors

It is essential that students be familiar with Windows operating systems. Experience in PLC control system design and/or programming is desirable. Familiarity with CitectSCADA systems is required.

Certification

None.

Course materials

None.

Learning Progression

CitectSCADA Configuration course and CitectHistorian course.



For more information visit www.citect.com

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