CODRA

CATALOGUE 2020
Panorama Trainings

Summary

ORGANISE YOUR TRAINING

Inter-company training

The Inter-company training is planned at our head office or in our branch premises.
The number of auditors is set at a maximum of 8 people.
Codra provides one PC per person at the head office and one PC for every two people in the branch office.
Codra provides lunch and tea & coffee breaks.

Intra-company training

The Intra-company training is planned at your premises on the date that suits you. Pease contact the training department to set a date.
The number of auditors is set at a maximum of 5 people.
The training room is provided by the company and must include one PC per person (at least one PC for two), a video projector and a whiteboard.

E-training

This e-training is delivered remotely, via the Microsoft Teams tool (no need to have a Teams account, we require only an internet connection). The number of trainees is set for 4 people (maximum).
Each trainee must have:
- A PC with a webcam and a microphone (to allow interaction with the trainer), O/S Windows 8.1 Pro 64-bits or Windows 10 Pro 64-bits
- 2 screens to follow both the presentation and carry out the manipulations
- A good internet connection
- Software required :
  - Panorama Suite 2020 (E2), TO download at https://esupport.codra.net (need to subscribe 1st)
  - Microsoft SQL Server, express edition is enough (version 2012 SP4 minimum), and SQL Server Management studio, TO download on the Microsoft website (here). Make sure you can create and configure a database before the training.

Prepare your stay

Coming to Codra Software – UK (**Access to CODRA SOFTWARE**)
Adamson House, Towers Business Park,
Wilmslow Road, Didsbury, Manchester,
Greater Manchester, M20 2YY

Access to the premises
Codra will provide a bagde during the training week. Ask the reception for exact location

Staying near Codra Software
Codra has set up a list of Hotels near the office

Procedure of your registration
- Upon receipt of the order or the registration form, the Company receives an acknowledgement of receipt by email.
- One month before the beginning of the training, the person in charge of the follow-up of the training receives:
  - an invitation to attend the training course, by email, accompanied by:
    - Access map
    - List of hotels near Codra
- On the last day of the training, the trainer gives the trainee an evaluation survey.
- At the end of the training course, the company receives the invoice accompanied by the training certificate and the signature sheet by post.

CODRA

TRAINING: Panorama E2 - Basis

PEDAGOGICAL OBJECTIVE

This Panorama E2 training provides the basic skills and the development methodology for Panorama E2 monitoring software. Following this training, you will be able to develop and integrate an application using the basic concepts of supervision in a single-post environment.

PROGRAM

Theme 1: Data acquisition

Collect and process your real-time data and ensure the communication is working.

- ➢ Implement OPC DA acquisition
- ➢ Implement communication with an Modbus TCP/IP automate
- ➢ Keep an eye on all my communications
- ➢ Implement processes and corrections on acquired data

Theme 2: Create your HMI

Learn how to develop simple and effective HMIs. Set up management of your operators within the supervision:

- ➢ Design custom-made HMI
- ➢ Animate and pilot your synoptic
- ➢ Set up navigation and operation of the HMI
- ➢ Integrate operating controls
- ➢ Manage app users

Theme 3: Modeling an app

Create components adapted to your app's needs:

- ➢ Create a functional component
- ➢ Modeling the equipment to supervised
- ➢ Automate objects configuration

Theme 4: Add business functions

Incorporate business functions into your app to use your data collection and drive your installation:

- ➢ Enrich your models
- ➢ Manage and display the defaults with the alarm
- ➢ Present the data to be exploited with curves
- ➢ Integrate advanced treatments by scripts

REQUIREMENTS

Participants should be familiar with the Windows environment and associated tools.

TARGET AUDIENCE

Technicians, developers, engineers or automation engineers.

EDUCATIONAL METHOD

Learning, concrete exercises, questions/answers.
PowerPoint presentation.
Training manual.

EVALUATION

No evaluation.

EXECUTION AND RESULTS FOLLOW UP

Continuous checking: none.
Registration & certification of internship.

DURATION AND SCHEDULES

5 days / 35 hours
INTER Monday 9:00 am to Friday 2:00 pm
INTRA Monday 1:00 pm to Friday 2:00 pm

DATES

Visit our website

PRICES

INTER £2,190.00 excl. tax/person
(Lunch included).

INTRA £8,790.00 excl. tax
1 to 5 persons
(Trainer's expenses not included).

CODRA

TRAINING: Panorama E2 - Advanced

PEDAGOGICAL OBJECTIVE

This training will allow you to develop your knowledge and skills regarding corrective or evolutive maintenance for Panorama E2.

PROGRAM

Theme 1: Anticipate

Anticipate Panorama version update and integrate new functionalities in the application:
- ➢ Panorama version update methodology
- ➢ Settings gallery optimization
- ➢ Alarm windows migration to PS2020
- ➢ Use of exploitation component

Theme 2: Connect

Getting a more connected application: access to the application from smartphone, connected with IoT objects with worldwide dimension:
- ➢ Activate HMI mobile function
- ➢ Develop a multilingual application
- ➢ Communicate with IoT device

Theme 3: Optimize

Optimize an application to ease its development and maintenance.
- ➢ Use advanced functions of panorama to facilitate development
- ➢ Use perfecting tools of application to find out settings errors
- ➢ Use diagnostic tools to fix your panorama application

Theme 4: Reliable

Make the application functionality reliable by increasing its availability, by improving the infrastructure monitoring, and by anticipating application maintenance functions.
- ➢ Increase application availability
- ➢ Monitor the application executive infrastructure
- ➢ Simplify application maintenance

REQUIREMENTS

Participants must, at least, have completed the Panorama E2 version 3 training and be familiar with the Windows environment and associated tools.

TARGET AUDIENCE

Technicians, developers, engineers or automation engineers.

EDUCATIONAL METHOD

Learning, concrete exercises, questions/answers.
PowerPoint presentation.

EVALUATION

No evaluation.

EXECUTION AND RESULTS FOLLOW UP

Continuous checking: none.
Registration & attestation of internship.

DURATION AND SCHEDULES

2 days / 14 hours
9:00 am – 5:00 pm

DATES

Visit our website

PRICES

INTER £980.00 excl. tax/person
(Lunch included).

INTRA £2,470.00 excl. tax
1 to 5 persons
(Trainer's expenses not included).

TRAINING: Panorama E2 - Cybersecurity

PEDAGOGICAL OBJECTIVE

Acquire the basics to secure a Panorama SCADA application.

PROGRAM

Theme 1: Definitions

Basics of cybersecurity:
- ➢ Aims of cybersecurity
- ➢ Threats or hackers definition

Theme 2: Be used to the concepts

Understand the concept of cybersecurity:
- ➢ Infrastructure prerequisite to implement panorama application
- ➢ Identify users' roles on the application
- ➢ Define accesses rights for application folders

Theme 3: 1st security level

- ➢ Methodology to create a secure application
- ➢ Secure the application and objects library
- ➢ Secure exploitation from the application (white list, integrated connection to databases, use of an external directory)
- ➢ Practice: Apply this 1st level of security to an existing application

Theme 4: 2nd security level

Secure your execution infrastructure:
- ➢ Prerequisite on application posts and good practices
- ➢ Reduce exposition surface
- ➢ Secure the different posts profiles: functional servers, exploitation post, database server, archiving, historian server
- ➢ Practice: Secure an executive infrastructure to integrate a distributed application

REQUIREMENTS

Participants should be familiar with:
- Panorama E2 environment
- Panorama Studio tool
- Panorama E2 executive infrastructure and get in place an exploitation application
- Windows environment and associated tools

TARGET AUDIENCE

Technicians, developers, engineers or automation engineers.

EDUCATIONAL METHOD

Learning, concrete exercises, questions/answers.
PowerPoint presentation.

EVALUATION

No evaluation.

EXECUTION AND RESULTS FOLLOW UP

Continuous checking: none.
Registration & attestation of internship.

DURATION AND SCHEDULES

2 days / 14 hours
9:00 am – 5:00 pm

DATES

Visit our website

PRICES

INTER £1,080.00 excl. tax/person (Lunch included).

INTRA* £2,720.00 excl. tax
1 to 5 people
(*available only in our premises in Massy (FRANCE))

TRAINING: Panorama H2

PEDAGOGICAL OBJECTIVE

This training allows the implementation of Panorama's data historian. From installing the Historian server, function to creating your reports: this training covers all steps of panorama H2 implementation.

PROGRAM

Theme 1: The Historian Server

Install and set up the Historian server to perfectly meet your needs:

- ➢ Advanced installation of the H2 server on an existing database.
- ➢ Set up the Historian server for an optimal use.
- ➢ Use the Configuration and Administration tool on the Historian Server

Theme 2: Application H2

Collect, process and structure your H2 data:

- ➢ Collect and process installation data
- ➢ Structure, Identify and Describe your H2 data and Alarms
- ➢ Define the types of H2 treatments to apply to data.
- ➢ Exploit H2 data from ready-to-use reports

Theme 3: Reporting H2 Customers

Explore, analyze and create your dashboards in H2 reporting:

- ➢ Introducing the various solutions available to view H2 data
- ➢ Create your own dashboards to analyze your data
- ➢ Use publishing and reporting functions

Theme 4: Pairing with Panorama E2

Easily integrate H2 function into an existing E2 application:

- ➢ Exploit E2 alarms in H2
- ➢ Exporting data from business objects to H2
- ➢ Display data from the Historian server in the Panorama app
- ➢ Use the archival reverse tool

REQUIREMENTS

Participants should be familiar with the Windows environment, associated tools and the SQL language.

TARGET AUDIENCE

Technicians, developers, engineers or automation engineers.

EDUCATIONAL METHOD

Learning, concrete exercises, questions/answers.
PowerPoint presentation.

EVALUATION

No evaluation.

EXECUTION AND RESULTS FOLLOW UP

Continuous checking: none.
Registration & attestation of internship.

DURATION AND SCHEDULES

3 days / 21 hours
9:00 am – 5:00 pm

DATES

Visit our website

PRICES

INTER £1,390.00 excl. tax/person (Lunch included).

INTRA* £3,690.00 excl. tax/1 to 5 persons
(*available only in our premises in Massy (FRANCE))

TRAINING: Panorama E2 - User classes (Plugins)

CODRA

PEDAGOGICAL OBJECTIVE
This training allows you to create your own objects (HMI elements, web services…) to integrate as a native elements pf panorama.

PROGRAM

Theme 1: Definitions
Presentation of training concepts:
- What is an user class ?
- What are the prerequisites
- Reminders on C# programing

Theme 2: Develop a user class
Be familiar with development tools:
- Facilitate user class integration by using descriptor class assistant generator
- Knowledge to create a simple user object
- Adjust your user class

Theme 3: Advanced functions
Exploit the entire Panorama infrastructure in your user class:
- Implement proprieties notifications
- Realised timed-qualified script
- Generate external events
- Follow application proprieties
- Manage the objects life-cycle

Theme 4: Practice
From specification to user class development:
- Define treatments for initialization and stop of the class
- Generate external events
- Put exit priority notifications in place
- Collect and treat the quality and date of proprieties
- Dimension Panorama license

REQUIREMENTS
Participants must have completed the Panorama E2 training and be familiar with the Windows environment, associated tools and the C# programming language.

TARGET AUDIENCE
Technicians, developers, engineers or automation engineers.

EDUCATIONAL METHOD
Learning, concrete exercises, questions/answers.
PowerPoint presentation.

EVALUATION
No evaluation.

EXECUTION AND RESULTS FOLLOW UP
Continuous checking: none.
Registration & attestation of internship.

DURATION AND SCHEDULES
2 days / 14 hours
9:00 am – 5:00 pm

DATES
On request, please contact the sales department.

PRICE
INTRA £2,720.00 excl. tax
1 to 5 persons
(Trainer's expenses not included).

TRAINING: Panorama E2 – Persist (API)

PEDAGOGICAL OBJECTIVE

This training allows you to get competencies to access Panorama E2 through an external program. You will be able to interface with Panorama "Persist" motor to create, browse or modify a panorama application.

PROGRAM

Theme 1: Create a Panorama application

Correctly use Persist interfaces:

- ➢ Model object persist
- ➢ Prerequisites
- ➢ Create an application using API persist

Theme 2: Access to objects

Access to units, objects and proprieties while your application is running:

- ➢ Create object in an application
- ➢ Modify objects proprieties values or links
- ➢ Access to sub-objects

Theme 3: Export application objects

Export your application structure in a random format:

- ➢ Export objects from application
- ➢ Browse objects collections
- ➢ Get objects proprieties configuration

Theme 4: Graphic objects

Designate your HMIs from an external tool:

- ➢ Object model HMICtrl
- ➢ Create a graphic object
- ➢ Create an animation or an order on a graphic object

REQUIREMENTS

Participants must have completed the Panorama E2 training and be familiar with the Windows environment, associated tools and the C# programming language.

TARGET AUDIENCE

Technicians, developers, engineers or automation engineers.

EDUCATIONAL METHOD

Learning, concrete exercises, questions/answers.
PowerPoint presentation.

EVALUATION

No evaluation.

EXECUTION AND RESULTS FOLLOW UP

Continuous checking: none.
Registration & attestation of internship.

DURATION AND SCHEDULES

1 day / 7 hours
9:00 am – 5:00 pm

DATES

On request, please contact the sales department.

PRICE

INTRA £1,820.00 excl. tax
1 to 5 persons
(Trainer's expenses not included).

TRAINING: Panorama P2

PEGAGOGICAL OBJECTIVE
This training allows you to acquire basic competencies on supervision software Panorama P2. These competencies will allow you to develop and/or integrate an industrial supervision application

PROGRAM

Presentation and concept
Environment WINDOWS
Panorama Concept

Panorama view editor
Fundamental notions of the Panorama view editor
Organization of the Panorama views

Database
Process database
Principle of the network setting

Animation of the views
Creation of the views
Configuration of the views
Creation of action lists
Calendars of actions
Creation internal variables and formula variables
Generic objects
Using property replacement
Use of instanciators

Users
Creating Panorama users

Alarm management
Basic Principles
Configuration of alarms, templates presentation, alarm windows
Interactive control of treatments
Examples of alarm management
Example of consignment status in an alarm history window

Archiving - drawing curves
Run-of-river archiving
Selective archiving
Drawing curves

Recipes
Configuring recipes
Recipes usage

REQUIREMENTS
Participants should be familiar with the Windows environment and associated tools.

TARGET AUDIENCE
Technicians, developers, engineers or automation engineers.

EDUCATIONAL METHOD
Learning, concrete exercises, questions/answers.
PowerPoint presentation.
Training manual.

EVALUATION
No evaluation.

MEANS OF FOLLOWING UP EXECUTION AND RESULTS
Continuous checking: none.
Registration & attestation of internship.

DURATION AND SCHEDULES
5 days / 35 hours
INTRA Monday 1:00 pm to Friday 2:00 pm

DATES
On request, contact the sales department.

PRICE
INTRA £8,790.00 excl. tax
1 to 5 persons
(Trainer's travel package not included).

CODRA

<table>
<tr><td colspan="2">Course registration form
Your order reference: ....</td></tr>
</table>

<table>
<tr>
<td>Training organization

CODRA SOFTWARE LIMITED

Adamson House, Towers Business Park,
Wilmslow Road, Didsbury, Manchester,
Greater Manchester, M20 2YY
UNITED KINGDOM

Registered in England 5998131
VAT GB 894 0440 15</td>
<td>Your company
Company name: ....
Address: ....
....
Postal code/City: ....
Contact person: ....
Phone number: ....
E-mail:...</td>
</tr>
<tr>
<td>Course title</td>
<td>...</td>
</tr>
<tr>
<td>Date – Duration</td>
<td>From .... to ....   Week no. …… - Duration …… hours</td>
</tr>
<tr>
<td>Location</td>
<td>☐ Inter-company training on Codra premises
Adamson House, Towers Business Park, Wilmslow Road, Didsbury, Manchester, Greater Manchester, M20 2YY, UNITED KINGDOM

☐ Intra-company training (specify if a different address is used):
....</td>
</tr>
<tr>
<td rowspan="2">Participant(s)</td>
<td>
<table>
<tr><th>Last name / First name</th><th>E-mail</th></tr>
<tr><td>..</td><td>...</td></tr>
<tr><td>..</td><td>...</td></tr>
<tr><td>..</td><td>...</td></tr>
<tr><td>..</td><td>...</td></tr>
<tr><td>..</td><td>...</td></tr>
</table>
</td>
</tr>
<tr><td></td></tr>
<tr>
<td>Pricing</td>
<td>Training .... ex VAT ....All included
Lunch is provided by Codra when "Codra onsite training" is chosen.

Expenses .... ex VAT ....All included
Concerning "Company onsite training", trainer's expenses shall be charged to the Company - quote on request</td>
</tr>
</table>

Terms and conditions:

This registration form is an order; by returning the completed the Company accept the terms and conditions mentioned below.

The invoice is due within 30 days following the training. The full amount for the course shall be due immediately for any cancellation, even in the event of force majeure, less than 10 working days prior to the start of the session.

Codra reserves the right to cancel a course if there are not enough participants; in this case, participants will be informed and another date proposed.

This agreement goes into effect upon its signature by the Company, for the duration of the training activity in question.

Any dispute that cannot be settled via an amicable agreement shall be under the jurisdiction of the Evry Commercial Court (91).

For the Company
Name and signature of responsible, date and stamp of the Company

Codra Software Ltd. - Business Office
Adamson House - Towers Business Park
Wilmslow Road - Didsbury - Manchester M20 2YY – UK
+44 (0) 1 244 893221 - sales-panorama@codra.fr - https://codra.net

Codra Software Ltd. – Registered Office
Lincoln House - 300 High Holborn - London WC1V 7JH - UK
Registered in England 5998131 – VAT GB 894 0440 15
Codra Software Ltd. is a wholly owned subsidiary of Codra Holding

Codra
Training organization
Hélios Building
2 rue Christophe Colomb
CS 0851
91300 Massy, France

Email: panorama@codra.fr
Web : Codra.net/en/

Codra Software
Regus House,
Chester Business Park,
Heronsway,
Chester CH4 9QR
United Kingdom

afaq
ISO 9001
Qualité
AFNOR CERTIFICATION

Dd Datadock

CODRA