

# Panorama Training 2013

## Training organization

Codra

19, avenue de Norvège

Narvik

91953 Courtaboeuf Cedex, France

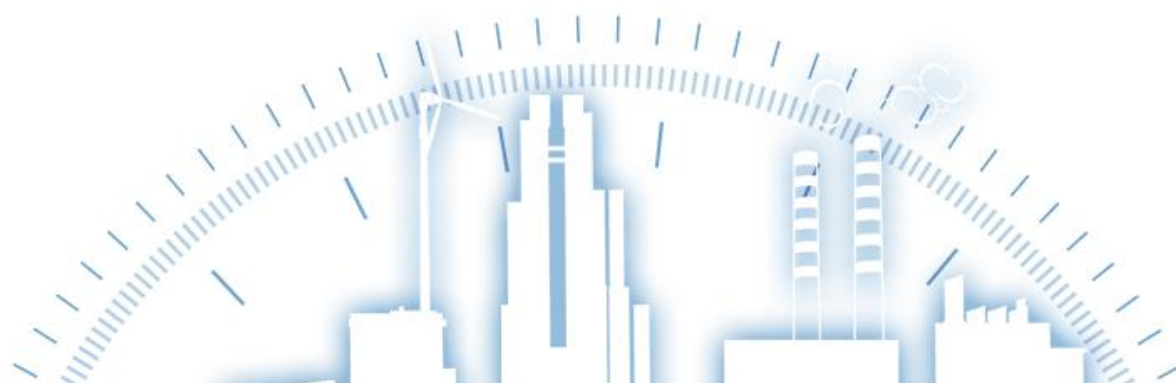
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Training registration number: 11 91 02085 91

Siret: 338 767 296 000 27

APE: 6201Z



# Panorama E<sup>2</sup>

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## Objective

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The Panorama E<sup>2</sup> course provides basic knowledge of Panorama E<sup>2</sup>. After the course, participants will know how to develop and/or integrate an industrial SCADA application.

## Prerequisites

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This course is designed for technicians and engineers.

## Training method

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- Learning assistance
- Practical exercises
- Q&A
- A training manual provided at the start of the session
- Inter-company training (on Codra's premises):
  - o Max. participants per session: 8
- Intra-company training (on your premises)
  - o Max. participants per session: 5
  - o Customer provides the PCs

## Evaluation

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There is no evaluation during the course.

## Course duration

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Sessions last one week; they are held from Monday 9:00 am to Friday 2:00 pm for inter-company training, and from Monday 1:00 pm to Friday 2:00 pm for intra-company training.

## Dates for courses at French Head Office

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### 1<sup>st</sup> semester

week 06 : from 04/02 to 08/02/2013  
week 12 : from 18/03 to 22/03/2013  
week 15 : from 08/04 to 12/04/2013  
week 20 : from 13/05 to 17/05/2013  
week 24 : from 10/06 to 14/06/2013

### 2<sup>nd</sup> semester

week 28 : from 08/07 to 12/07/2013  
week 37 : from 09/09 to 13/09/2013  
week 42 : from 14/10 to 18/10/2013  
week 47 : from 18/11 to 22/11/2013  
week 50 : from 09/12 to 13/12/2013

These are training courses in French. Please contact us for English trainings schedule.

## Pricing

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Inter-company training	€1,990.00 ex-VAT / person
Intra-company training	€6,200.00 ex-VAT / 5 people



## Detailed program of the Panorama E<sup>2</sup> course

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### **1. Panorama E<sup>2</sup> presentation**

- Learning about the architecture
- The Panorama E<sup>2</sup> concept

### **2. Getting started**

- Understanding the creation of Panorama E<sup>2</sup> objects
- Basic configuration of objects in an application

### **3. Data Acquisition function**

- Implementing objects for data acquisition
- Understanding functions provided by these objects

### **4. HMI function: animation**

- Creating mimic
- Understanding drawing tools and animation possibilities

### **5. HMI function: Navigation**

- Creating scripts for navigating in and using the HMI

### **6. Running the application**

- Configuring and locking the HMI

### **7. User management**

- Setup operator access control to the application functions

### **8. HMI function: Runtime data and control objects**

- Using workstation data and control objects

### **9. Alarm and event function**

- Using objects of the Alarm function
- Understanding the functions provided by these objects

### **10. Parameter values**

- Learning to declare and use parameter values

### **11. Script objects**

- Using script objects
- Understanding the functions provided by these objects

### **12. Developing components**

- Creating components tailored to an application's requirements

### **13. Application structure and network deployment: functional units**

- Tree structures in the application

### **14. Archiving function**

- Using archiving function objects

### **15. Trend drawing function**

- Understanding and using the trend drawing object

### **16. Misc. objects**

- Understanding the functions and how to use Formula objects
- Understanding the functions and how to use Maintenance objects
- Understanding the functions and how to use Schedule objects
- Understanding the functions and how to use Database objects

### **17. Tools**

- Understanding and using the tools provided with Panorama



# Panorama P<sup>2</sup>

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## Objective

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The Panorama P<sup>2</sup> course provides basic knowledge of Panorama P<sup>2</sup>. After the course, participants will know how to develop and/or integrate an industrial SCADA application.

## Prerequisites

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This course is designed for technicians and IT engineers.

## Training method

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- Learning assistance
- Practical exercises
- Q&A
- A training manual provided at the start of the session
- Inter-company training (on Codra's premises):
  - o Max. participants per session: 8
- Intra-company training (on your premises)
  - o Max. participants per session: 5
  - o Customer provides the PCs

## Evaluation

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There is no evaluation during the course.

## Course duration

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The sessions (both inter-company and intra-company) last four days; they are held from Monday 1:00 pm to Friday 2:00 pm.

## Dates for courses at French Head Office

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### 1<sup>st</sup> semester

week 11 : from 11/03 to 15/03/2013

### 2<sup>nd</sup> semester

week 41 : from 07/10 to 11/10/2013

These are training courses in French. Please contact us for English trainings schedule.

## Pricing

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Inter-company training	€1,990.00 ex-VAT / person
Intra-company training	€6,200.00 ex-VAT / 5 people



## Detailed program of the Panorama P<sup>2</sup> course

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### 1. OVERVIEW AND BASIC CONCEPTS

- The Windows environment
- The Panorama concept

### 2. PANORAMA MIMIC EDITOR

- Basic concepts of the Panorama Mimic Editor
- Organization of Panorama mimic diagrams

### 3. DATABASE

- Process database
- Networking principle

### 4. ANIMATION OF MIMIC DIAGRAMS

- Creating mimic diagrams
- Configuring mimic diagrams
- Creating action scripts
- Action schedules
- Creating internal variables and formula variables
- Generic objects
- Using property replacement
- Using instantiators

### 5. USERS

- Creating Panorama users

### 6. ALARM MANAGEMENT

- Basic concepts
- Configuring alarms, presentation templates, and alarm windows
- Interactive process control
- Examples of alarm management
- Example of status records in an alarm history window

### 7. ARCHIVING - TREND DRAWING

- On-stream archiving
- Selective archiving
- Trend drawings

### 8. RECIPES

- Configuring recipes
- Using recipes



# Panorama IT

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## Objective

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This course enables participants to implement solutions for deferred-time processing. You will be able to implement the Panorama IT solution and generate reports such as statistical reports, production tracking, alarm cycles, trends, etc.

## Prerequisites

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This course is designed for developers or automation experts who have followed the Panorama E<sup>2</sup> course, and are familiar with the Windows environment and SQL.

## Training method

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- Learning assistance
- Practical exercises
- Q&A
- A training manual provided at the start of the session
- Inter-company training (on Codra's premises):
  - o Max. participants per session: 8
- Intra-company training (on your premises)
  - o Max. participants per session: 5
  - o Customer provides the PCs

## Evaluation

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There is no evaluation during the course.

## Duration

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2 days

## Dates for courses at French Head Office

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### 1<sup>st</sup> semester

week 13 : from 26/03 to 27/03/2013

### 2<sup>nd</sup> semester

week 43 : from 22/10 to 23/10/2013

These are training courses in French. Please contact us for English trainings schedule.

## Pricing

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Inter-company training	€980.00 ex-VAT / person
Intra-company training	€2.470.00 ex-VAT / 5 people



## Detailed program of the Panorama IT course

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### 1. Overview

### 2. Architecture

- Client-server using WebServices technology
- Panorama IT for multiple applications

### 3. SQL Server Management Studio

- The Panorama IT preconfigured database schema

### 4. Data organization and usage recommendations

### 5. Principles for collecting data to send to Panorama IT

- Overview of the Panorama IT export object
- Data labeling principle (categories and naming information) for defining the Panorama IT configuration data
- Principle for defining labels (alarm categories and export objects)

### 6. Report Builder

- Operating principles
  - Configuring data sources and datasets
  - Using the configuration data for sorting and filtering
  - Overview of the visualization tools (arrays, tables, trends, etc.)
  - Overview of how to use groups of rows and columns

### 7. Accessing reports

- Direct access from a browser
- Viewing reports from a mimic diagram

### 8. Publishing reports

- Automatic report generation
  - Providing reports as files (Word, PDF, Excel)
  - Sending reports by email, multicasting

### 9. Viewing Panorama IT data from Excel



# Panorama TLM

## Communication front-end

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### Objective

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This course is designed for developers or automation experts responsible for creating a SCADA application or needing to modify/enhance existing applications using the communication front-end.

Following this course, you will be able to acquire data from a device by using Panorama TLM.

### Prerequisites

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Participants must have followed the Panorama E<sup>2</sup> level 1 course and be familiar with the Windows environment.

### Training method

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- Learning assistance
- Practical exercises
- Q&A
- A training manual provided at the start of the session
- Inter-company training (on Codra's premises):
  - o Max. participants per session: 8
- Intra-company training (on your premises)
  - o Max. participants per session: 5
  - o Customer provides the PCs

### Evaluation

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There is no evaluation during the course.

### Course duration

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1 day

### Dates for courses at French Head Office

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#### 1<sup>st</sup> semester

week 13 : 28/03/2013

#### 2<sup>nd</sup> semester

week 43 : 24/10/2013

These are training courses in French. Please contact us for English trainings schedule.

### Pricing

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Inter-company training      €670.00 ex-VAT / person





## Detailed program of the Panorama TLM course

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### 1. Overview

### 2. Features

- Panorama E<sup>2</sup> telemetry objects
- Data Acquisition
- Ready-to-use views

### 3. Usage

- Sofrel import
- Wit import
- Link redundancy

### 4. Generic application

### 5. Usage

- Modbus data acquisition



**Course registration form****Your order reference:** .....

<b>Training organization</b> Codra 19, avenue de Norvège Narvik 91953 Courtaboeuf Cedex, France Training registration number: 11 91 02085 91 Siret: 338 767 296 000 27 APE: 6201Z	<b>Your company</b> Company name: ..... Address: ..... ..... Postal code/City: ..... Contact person : ..... Phone number : ..... E-mail : .....	
<b>Covered by an OPCA</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No  OPCA name: ..... Address: ..... ..... Postal code/City: .....	
<b>Course title</b>	.....	
<b>Date – Duration</b>	From ..... to ..... Week no. .... - Duration ..... hours	
<b>Location</b>	<input type="checkbox"/> Inter-company training on Codra premises - 19 avenue de Norvège – Narvik - 91953 Courtaboeuf, France <input type="checkbox"/> Intra-company training (specify if a different address is used): ..... .....	
<b>Participant(s)</b>	<b>Last name / First name</b>	<b>E-mail</b>
	..... ..... ..... ..... .....	..... ..... ..... ..... .....
<b>Pricing</b>	€..... ex-VAT – €.....incl. VAT (19.6%) Lunch is provided by Codra for inter-company training.	

**Terms and conditions:** When the training activity is not covered by an OPCA, the Company agrees to pay Codra the fixed rate specified above, under the following conditions: 50% upon registration, the balance 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**

Date, corporate seal, and signature

