

# Data evolution e-learning channel - NoSQL, Big Data, Blockchain

**Practical course - 0,5d - 02h10 - Ref. 8BL**

**Price : 190 CHF E.T.**

Blockchain, often associated with cryptocurrency, goes far beyond simple financial transactions. With its decentralized architecture and consensus-based system, it offers a revolutionary solution guaranteeing the authenticity, transparency and integrity of data without the need for intervention by a central authority. Our specialized channel offers a comprehensive overview of blockchain, exploring how it works, its current and potential applications, and the challenges and opportunities it presents for the future.

## Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Understand the evolution of data and data processing through Big Data
- ✓ Understanding NoSQL databases
- ✓ The origins of blockchain
- ✓ Understanding the fundamentals of how blockchain works
- ✓ Study blockchain use cases
- ✓ Understand the advantages, limitations and challenges of blockchain

## Intended audience

CIOs, architects, developers, project managers, system and network administrators, decision-makers in charge of organization and IS, engineers, consultants, advanced technicians.

## Prerequisites

Basic knowledge of application architecture.

### PARTICIPANTS

CIOs, architects, developers, project managers, system and network administrators, decision-makers in charge of organization and IS, engineers, consultants, advanced technicians.

### PREREQUISITES

Basic knowledge of application architecture.

### TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

### ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

## Practical details

### Digital activities

IT structure: recorded courses, expert videos and best practice sharing.

### Mentoring

L'option tutorat propose un accompagnement personnalisé par un formateur référent ORSYS, expert du domaine. Adapté aux besoins, aux capacités et au rythme de chaque apprenant, ce tutorat combine un suivi asynchrone (corrections personnalisées d'exercices, échanges illimités par message...) et des échanges synchrones individuels. Bénéfice : une meilleure compréhension, le développement des compétences et un engagement durable dans la formation.

### Pedagogy and practice

A wealth of content produced by trainers following a rigorous pedagogical approach. During each course, operational cases are commented on by experts to help learners put into practice what they have just learned. To help learners anchor their memory, each content item is broken down into short sequences of 3 to 10 minutes. This enables each learner to learn dynamically and independently.

## Course schedule

### 1 Databases, big data and blockchains, discover the evolution of data and its uses

- Understand data management and Big Data.
- Discover big data and NoSQL.
- Knowledge of data and development languages.
- Knowledge of decentralized applications.
- Understand new data sources.

### 2 Blockchain, understand its concepts and discover examples

- Origins and fundamentals.
- Developments and use cases.

## TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.

- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.

- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

## TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

## ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at [psh-accueil@orsys.fr](mailto:psh-accueil@orsys.fr) to review your request and its feasibility.