

# Course : State of the art in business intelligence tools

Synthesis course - 2d - 14h00 - Ref. BIB

Price : 2020 CHF E.T.

★★★★☆ 4,5 / 5

You'll understand the current BI environment and be able to choose your business intelligence (BI) solution. You'll learn about big data, market trends and existing solutions, and get expert advice on how to implement the right tool for your specific use cases.

## Teaching objectives

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

- ✓ Understand decision analysis tools and their benefits
- ✓ Compare the main BI solutions on the market according to business needs
- ✓ Identify and define different scenarios for using a BI tool
- ✓ Make the right choice of tools with an overview of the market and its needs

## Intended audience

IT managers, decision-makers, project managers.

## Prerequisites

No special knowledge required.

## Practical details

### Storyboarding workshops

The points covered are illustrated by case studies.

### Teaching methods

Active pedagogy based on examples, demonstrations, experience sharing and case studies.

## Course schedule

### PARTICIPANTS

IT managers, decision-makers, project managers.

### PREREQUISITES

No special knowledge required.

### 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.

### 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

## 1 Introduction

- Understand BI tools and their benefits: ETL tools, databases, BI platforms.
- Presentation of the architecture of a business intelligence information system.
- New architectures linked to big data (data lake).
- The three main levels of decision-making analysis: operational, analytical and strategic.

### Hands-on work

Identify targets (strategic, tactical, operational) in relation to visualizations.

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 to review your request and its feasibility.

## 2 Overview of decision-making tools

- The main BI suppliers: managers, experts, emerging players...
- Proprietary solutions (MS SQL Server BI, SAP BO...) and open source solutions (Power BI, Qlik Sense, Tableau...).
- Criteria to consider: source, volume, type of data, performance measurement, data visualization...
- Comparison of the main BI solutions on the market: operational snapshots, limited exploration...
- Big data tools (data analytics, etc.).

### Hands-on work

Using practical use cases (operational snapshots, limited exploration, data visualization, etc.), establish the strengths and weaknesses of the main players.

## 3 Main use cases and fields of application for decision-making tools

- Operational snapshot reports. Dashboards.
- Integrated applications (ERP).
- The integration of spreadsheets as a decision-making analysis tool.
- Ad hoc analysis (detection of relevant data for analysis).
- Pivot tables and Online Analytical Processing (OLAP).
- Advanced visual analyses (graphical representation, data discovery, etc.).
- Autonomous business analyses (without IT intervention).

### Hands-on work

Identify and explain use cases for your project or organization.

## 4 Choosing a decision-making tool: evaluation criteria

- Basic features: data sources, data mining, security...
- Functionalities specific to self-service use cases: selection, analysis, measurement...
- BI-specific features: visualizations, In-Memory analysis, mobile version...
- Other general criteria.

### Hands-on work

Based on your knowledge of your company, establish the essential, useful and secondary aspects to be taken into account.

## Dates and locations

**REMOTE CLASS**

2026 : 2 June, 15 Sep., 24 Nov.