

# IT Technologies, overview

Seminar of 3 days - 21h

Ref.: TEC - Price 2024: €2 890 (excl. taxes)

A clear and precise overview covering the very latest IT and telecommunications advances, their foreseeable short and medium-term evolutions, their impact on companies and users. The main objectives of this seminar include: Analysing and comparing the main network solutions. Constructing multi-service networks. Making them secure. Mastering Internet technologies. Measuring the impact of digital media and e-commerce. Integrating the object approach in development methods. Putting in place rich-client and Web applications. Selecting a development process suited to the digital technologies.

## THE PROGRAMME

last updated: 01/2018

### 1) Telecommunications: market, major solutions

- The telecommunications market: voice, data, traffic.
- The industry players and standardisation.
- The impact of deregulation. The legal principles.

### 2) Security

- Issues: physical architecture, protocols, encoding, organisation. From the firewall to the IDS.
- Secured VPNs: IPSEC or SSH/SSL.
- Mechanisms for digital signatures.
- The infrastructures for managing and distributing keys.

### 3) The IS infrastructure

- The state of the art. From the thin client workstation to the centralised server.
- The new operating systems, the new types of workstations, mobile phones and PDAs.

### 4) Web technology and its applications

- Internet developments. Structure of applications.
- The three-tier architecture. Application components.
- The structuring of documents. PDF, XHTML, Web 2.0.
- RIA Technologies (Flex, Flash, Silverlight, Java), RDA (Air, JavaFX), HTML5, xHTML. The trends.
- What are the features of a company portal? Secured access, open connectors, profile management and parameter setting. Th

### 5) XML and Web services

- Presentation of XML, the XSLT transformation engines and the XML parsers (Xalan, Sabloton, etc). XML SGBDs
- Web service
- The principle defined by the W3C. SOAP, UDDI and WSDL. Access protocol, mode of operation. The products offer.

### 6) Open Source software

- Genesis of the main Open Source Software.
- The guarantees of security and long life.

#### PARTICIPANTS

This seminar is aimed at IT managers and their immediate staff who wish to obtain the information needed to define IT strategies.

#### PREREQUISITES

Knowledge in computing.

#### 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

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.

- Linux server or client? Apache. Development (PHP, Eclipse, etc.). Databases (MySQL, PostgreSQL). CMS.

## 7) EAI and Urbanisation

- Enterprise Application Integration. The market offers. The components of an EAI solution.

## 8) Application servers

- Application Intranet and application servers. Features.
- Application server offers: IBM, Oracle...
- Cloud Computing Architectures: Private et Public.

## 9) Java and .Net technologies

- The hardware platform portability concept. JavaBeans and RMI. Access to databases (JDBC). Java APIs. The JEE platform.
- Microsoft's .Net architecture. Framework, Enterprise Server, ASP .Net, Common Language Runtime, etc. Why Microsoft's mid

## 10) Data servers

- The market and the offers, IBM, Oracle, Microsoft.
- User-oriented systems. Types of multi-dimensional storage (MOLAP, ROLAP, HOLAP). The client tool families.
- DataWeb. The under-lying technologies.

# DATES

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## REMOTE CLASS

2025 : 10 Jun, 23 Sep, 02 Dec