

# Titre RNCP Expert en informatique et systèmes d'information - Cybersecurity option

Level 7 - RNCP 40573

Practical course - 88d - 616h00 - Ref. XCS

Price : 23790 € E.T.

NEW

This training path will enable you to obtain the state-approved RNCP level 7 (Bac +5) title "Expert en informatique et systèmes d'information - Option Cybersécurité". You'll learn and validate the skills needed to understand a company's technical architecture, manage IT projects and design and develop an IT application in Python. You'll also learn how to manage the cybersecurity of systems, applications and databases.

## Teaching objectives

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

- ✓ Define an IS technical architecture evolution strategy
- ✓ Modeling the company and its IS
- ✓ Align IS with corporate strategy and guarantee security
- ✓ Describe the development plan and project monitoring requirements in the project specifications
- ✓ Managing an IT project
- ✓ Translate functional requirements using UML diagrams
- ✓ Design and develop a computer application in Python
- ✓ Managing the cybersecurity of systems, applications and databases

## Intended audience

Anyone wishing to become an expert in IT and information systems.

## Prerequisites

Être titulaire d'un diplôme ou titre de niveau 6 (équival. Bac + 3/4) en spécialité informatique ou justifiant d'une expérience professionnelle équivalente.

Être titulaire d'un diplôme ou titre de niveau 7 (équival. Bac + 5) en spécialité scientifique ou justifiant d'une expérience professionnelle équivalente.

### PARTICIPANTS

Anyone wishing to become an expert in IT and information systems.

### PREREQUISITES

Être titulaire d'un diplôme ou titre de niveau 6 (équival. Bac + 3/4) en spécialité informatique ou justifiant d'une expérience professionnelle équivalente.

Être titulaire d'un diplôme ou titre de niveau 7 (équival. Bac + 5) en spécialité scientifique ou justifiant d'une expérience professionnelle équivalente.

### 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.

## Certification

Chaque bloc de compétences est validé par un examen écrit. La délivrance du titre RNCP est conditionnée à la validation des 4 blocs de compétences le composant. Titre RNCP "Expert en informatique et système d'information" Niveau 7 (équivalent Bac+5) délivré par 3W ACADEMY - Certification professionnelle enregistrée au RNCP par décision de France Compétences le 30/04/2025 pour une durée de 5 ans (RNCP 40573).

## Course title

This title consists of a set of skill units that can be completed independently.

### Defining an information systems strategy certification course

Ref. ZSH - 14 days

---

### IT project management certification course

Ref. ZMO - 12 days

---

### Design and develop a computer application in Python certification course

Ref. ZCT - 36 days

---

### Cybersecurity Manager for systems, applications and databases certification course

Ref. ZCN - 26 days

---

## Legal notice

**Pass rate :** Calculation pending certification of 1st participants.

**Ref. France Compétences :**

<https://www.francecompetences.fr/recherche/rncp/40573/>

**NSF code :** 326n - Analyse informatique, conception d'architecture de réseaux ; 326t - Programmation, mise en place de logiciels.

**Job opportunities :** Design & development engineer, Software engineer, IT engineer/ information systems (IS), IT project manager, Business intelligence (BI) / information systems (IT) consultant, Business intelligence expert, Lead Dev, DevOPs specialist, Big data architect - Data engineer/ Data analyst, IT security expert - Cybersecurity consultant.

**Equivalences :** The RNCP title Expert en informatique et systèmes d'information refers to a level 7, equivalent to a BAC+5.

**Bridges :** There is no possibility of transferring to another RNCP qualification in our range.

## Course schedule

### 1 Defining an information systems strategy

- Implement effective competitive intelligence.
- New information systems architectures.
- Information systems urbanization and architecture.
- SOA, service-oriented architecture, overview.
- Efficiently manage your IS architecture using the TOGAF standard.
- End-of-course certification.

### 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.

## 2 Managing IT projects

- Draw up specifications.
- Manage an IT project.
- UML 2, analysis and design.
- RGPD, raising awareness of data protection regulations.
- Digital accessibility awareness, issues and regulations.
- End-of-course certification.

## 3 Design and develop a computer application in Python

- Linux, implementation.
- Introduction to algorithms (with Python).
- Python, object-oriented programming.
- Design Patterns, implementation.
- BPMN and SOA, modeling processes and designing services.
- Web architecture design.
- Django, Web development with Python.
- Web application security.
- GIT, implementing version control.
- Software test automation.
- End-of-course certification.

## 4 Managing the cybersecurity of systems, applications and databases

- Information Systems Security, summary.
- Network/Internet cybersecurity, summary.
- IS security, practical implementation of a risk analysis.
- Risk Manager - EBIOS method.
- Hacking and security, level 1.
- Intrusion testing, organizing an audit.
- Cybersecurity, testing environments.
- Forensic analysis.
- End-of-course certification.

### Times

Courses take place from 09:00 to 12:30 and from 14:00 to 17:30.

Participants may arrive beginning at 08:45. Breaks and lunches are complimentary.

For four- and five-day hands-on courses, sessions end at 16:00 on the last day of the course, regardless of the teaching mode..

### Dates and locations

#### REMOTE CLASS

2026 : 15 June, 28 Sep., 14 Dec.

#### PARIS LA DÉFENSE

2026 : 15 June, 28 Sep., 14 Dec.