

Course : Certifying course Designing an application integrating an artificial intelligence service

Skills block of the RNCP 37827BC03 title

Practical course - 30d - 210h00 - Ref. ZRS

Price : 12730 € E.T.

Ce parcours de formation représente le troisième bloc de compétences du titre RNCP de niveau 6 (Bac +3) « Développeur en intelligence artificielle » reconnu par l'État. Vous apprendrez à développer des applications avec l'IA. Vous maîtriserez l'analyse des besoins, la conception technique, la coordination du développement, la création d'interfaces, l'automatisation des tests et de la livraison, la surveillance des applications d'IA et la résolution des incidents. Ce parcours complet vous prépare à toutes les étapes du développement et de la maintenance des applications d'IA.

Teaching objectives

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

- ✓ Analyze a customer's application needs integrating an AI service
- ✓ Design the technical framework of an application integrating an AI service, based on a needs analysis
- ✓ Coordinate the technical implementation of an AI application
- ✓ Develop the technical components and interfaces of an application
- ✓ Automate source code testing phases during source versioning
- ✓ Create a continuous application delivery process
- ✓ Monitoring an artificial intelligence application
- ✓ Resolving technical incidents

Intended audience

Anyone wishing to develop an application integrating an artificial intelligence service.

PARTICIPANTS

Anyone wishing to develop an application integrating an artificial intelligence service.

PREREQUISITES

Hold a level 5 diploma (Bac +2), with knowledge of object programming and SQL. If this is not the case, hold a level 4 diploma (BAC) and 3 years' experience in application development, subject to validation of the VAP file by the certifier.

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.

Prerequisites

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Certification

Le bloc de compétences est validé à travers une mise en situation et un cas pratique. Pour la mise en situation, l'évaluation doit se faire dans un contexte réel ou fictif de développement d'une application intégrant un service d'intelligence artificielle. Le projet évalué a pour but d'analyser un besoin en développement d'application d'intelligence artificielle, de concevoir, développer, tester et enfin livrer l'application. Évaluation basée sur la correction d'un rapport professionnel et d'un oral individuel. Pour le cas pratique, l'évaluation doit se faire à partir d'une application existante présentant au moins une erreur technique, en contexte réel ou fictif. Le cas pratique a pour but la mise en place du monitoring applicatif et de la résolution d'un incident technique dans l'application. Évaluation basée sur la correction de la documentation et d'un oral individuel présentant le monitoring de l'application et la solution implémentée en réponse à l'incident technique traité.

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.

Course contents

This course consists of the following modules :

Expression of user needs, best practices

Ref. EXU - 2 days  4 / 5

Agile Methods for Project Management: Understanding the Approach

Ref. MAG - 2 days  4 / 5

Unix/Linux Essentials, Hands-on

Ref. BUX - 2 days  4 / 5

Git: Implementing Version Control

Ref. GIT - 2 days  4 / 5

Docker: Creating and administering your virtual application containers.

Ref. DOK - 3 days  4 / 5

Django, Web development with Python

Ref. DJA - 4 days  5 / 5

AI Python for image processing

Ref. PYI - 3 days  4 / 5

MLOps, deploying Machine Learning in production

Ref. MLW - 3 days  4 / 5

Certification Building an application integrating an artificial intelligence service

Ref. ZSP - 0.5 day

Course schedule

1 Expression of user needs, best practices

- Understand the requirements expression phase in a classic and agile project.
- Describe a business process and business data.
- Describe the functional architecture of the system to be implemented.
- Estimate development costs.
- Use UML to express requirements.

2 Agile project management methods, understanding the approach

- Understand the iterative principles of agile methods.
- Define and prioritize a usage scenario in agile mode.
- Implement project planning based on agile principles.
- Get to grips with visual management and progress tools in an agile context.
- Identify your place and role within an Agile project.

3 Jira® Software, use

- Create and update tickets in Jira.
- Build a project management dashboard with Jira.
- Organize requirements.
- Create sprints and associate stories with sprints.
- Set up reporting with Jira.
- Use Jira for versioning, testing and bug tracking.

4 Unix/Linux user, the essentials

- Understand the fundamentals of Unix/Linux.
- Explore a Unix/Linux tree structure.
- Handle files and directories.
- Personalize the work environment.
- Execute shell scripts.

5 GIT, implementing version control

- Understand the basic concepts of version management and the benefits of decentralization.
- Install and configure the Git tool on Windows.
- Create and initialize a repository with Git.
- Use Git commands to manage files and branches.
- Implement a collaborative project with Git.

6 GitLab CI/CD, mastering the management of your software development lifecycle

- Get to know GitLab.
- Practice versioning with Git and collaborate with GitLab.
- Implement continuous integration (CI) and continuous deployment (CD) with GitLab.
- Understand the building blocks of a DevOps software factory.

7 Docker, creating and managing virtual application containers

- Understand the positioning of Docker and containers.
- Use Docker's command-line interface to create containers.
- Implement and deploy applications in containers.
- Manage containers.
- Rapidly deploy applications using containers.
- Identify the risks and challenges inherent in Docker so as to anticipate the right solutions.

8 Django, Web development with Python

- Know how to interface Django with a database.
- Develop dynamic views.
- Develop templates.
- Managing Django forms.
- Implement the main advanced functions.

9 Python for natural language processing (NLP)

- Use python to process text data.
- Select the Python tools and libraries needed for processing.
- Set up the various pre-processing and vectorization stages.
- Use appropriate techniques according to objectives: classification / topic modeling / sentiment analysis.
- Apply and evaluate models on real data.

10 Artificial intelligence, image processing with Python

- Deepen your knowledge of the Python language.
- Perform Machine Learning data analysis in Python.
- Discover Python image processing libraries.
- Transform an image.
- Extract information from an image.

Dates and locations

REMOTE CLASS

2026 : 19 Mar., 22 June, 5 Oct., 14 Dec.

PARIS LA DÉFENSE

2026 : 19 Mar., 22 June, 5 Oct., 14 Dec.