

Updated on 12/29/2023

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## Orchard training

3 days (21 hours)

### Presentation

[Orchard](#) is a powerful CMS (Content Management System) based on the ASP.NET MVC platform. Released in 2011, the project is supported by a team from Microsoft and a large [Open Source](#) community.

Built on a modern, modular architecture, Orchard technology puts scalability at the heart of its system. This CMS is the ideal solution for simply creating and managing your professional websites, while retaining full control over content. It represents an alternative to Wordpress, Drupal and Joomla, and is aimed directly at developers with experience of the latest Microsoft .NET technologies.

This training course introduces the latest version of the product, [Orchard Core RC 2](#).

### Objectives

- Master the advanced concepts of Orchard CMS
- Design and build a robust site with Orchard
- Maintaining and upgrading a site under Orchard
- Developing your own Orchard modules

### Target audience

Developers, Architects

### Prerequisites

- Knowledge of HTML5 / CSS / JavaScript, ASP.NET MVC, C#

## Orchard CMS training program

## Orchard's general concepts

- MVC-based technology
- Using NHibernate and Entity Framework to access databases
- Aggregating shares to create content
- Routing and Aliases
  - Display
  - Template hierarchy
  - Zones
  - Layout / Document
- Modularity
- Outlook and developments

## Orchard's in-house tools

- Page editor
- Layout Editor
- Themes
- Projections
- Media Bookshop
- Workflow
- Tokens
- Job scheduler
- Audits
- Batch
- Module management and the module gallery
- Caches
  - Page cache
  - Trade cover
- Logs

## Designing a site with Orchard

- Setup
  - Choice of accommodation
  - SQL Server type selection
- Theme
  - Gallery themes
  - Using a framework like Bootstrap
- Modules
  - Internal
  - Gallery
- Menus
- Widgets and Layouts
- Contents
- Users

- Site settings
  - Languages
  - Cover
- Optimization

## Maintain an Orchard site

- Hosting on Azure
- Site update
- Database management

## Developing an Orchard module

- Autofac dependency injection
- Model and Migration
- Technical architecture: Controller / Driver / Handler / Services
- Creating Queries
- Views and display management by DisplayType or other criteria
- Alternates
- Menus
- Administration menu

## Companies concerned

This training course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

## Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

## Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

## Organization

The course alternates theoretical inputs from the trainer supported by examples and

brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire is used to check that skills have been correctly acquired.

## Sanction

A certificate will be issued to each trainee who completes the course.