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# WinUI training: Master the art of UI development

2 days (14 hours)

## Presentation

Explore the exciting horizons of user interface development with our WinUI training course. Whether you're working in a Windows-only world, exploring hybrid environments or simply looking to hone your Windows application development skills.

At the end of this course, you'll be able to create [intuitive, adaptive user interfaces](#).

You'll develop an in-depth understanding of WinUI architecture and how it works, and master the best practices for designing modern, high-performance Windows applications.

During this training course, you'll skillfully navigate the WinUI development environment, securely prepare your user interfaces, and configure your infrastructure to precisely meet the specific needs of your projects.

As with all our training courses, we'll introduce you to the [latest resources](#) and techniques to ensure you stay at the cutting edge of Windows application development.

## Objectives

- Gain an in-depth understanding of WinUI basics
- Master step-by-step installation of the WinUI environment
- Explore the essential components of WinUI,
- Set up fluid navigation and apply advanced navigation models

## Target audience

- Application developers
- IT engineers
- Software architects

## Prerequisites

Basic knowledge of Windows application development concepts is a plus.

## WinUI training program

### Introduction to WinUI

- Understanding the basics of WinUI
- Exploring adaptive user interface concepts
- Benefits of using WinUI in application development
- Overview of key WinUI features
- The importance of adaptability in modern user interface design
- Concrete examples of successful WinUI projects.

### Installation and configuration

- Step-by-step installation of the WinUI development environment
- Initial creation of a WinUI project
- Dependency and package management
- Effective use of version management tools
- Customize development parameters

### Essential WinUI components

- Exploring the basic components of WinUI
- Creating interactive user interfaces
- Integrating data models with components
- Use styles to customize the appearance of components
- Handling component events for advanced interactivity
- Practical examples of projects using these components

### Navigation and layout

- Smooth navigation
- Designing effective layouts
- Using advanced navigation models with WinUI
- Manage transitions between different sections of the application
- Practical advice
- successful projects using advanced navigation techniques

## Advanced customization

- Customize application appearance with themes
- Using animations
- Integration of advanced functions
  - Gesture recognition
- Customize default controls
- Customization optimization

## Performance optimization and debugging

- Optimization techniques for smooth performance
- Integrated debugging tools
- Extensive testing on different Windows platforms.
- Performance profiling
- Error and exception handling
- Integration of performance best practices

## 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 input from the trainer, supported by examples, with brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire is used to check correct acquisition.

skills.

## Sanction

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