

## Objective C Programming

### Audience Objective C Programming Course

This course is designed for participants who want to learn the basics of Objective C in preparation for the development of iOS and OS X applications.

### Prerequisites Course Objective C Programming

No programming knowledge is required to participate in this course. Prior knowledge of programming languages such as Java or Visual Basic is beneficial for the understanding.

### Realization Training Objective C Programming

The theory is treated on the basis of presentation slides. Demos are used to clarify the theory. There is ample opportunity to practice and theory and exercise are interspersed. The course uses the XCode development environment.

### Certificate Objective C Programming

After successful completion of the course the participants receive an official certificate Objective C Programming.

Duration: 3 days

Price: € 1850

[Open Schedule](#)



**Objective C Fundamentals**



## Content Course Objective C Programming

In the course Objective C Programming participants learn the basics of the Objective C programming language for iOS development. The course does not address the development of iOS app, but is a preparatory course in which the Objective C language in which iOS apps are written is treated.

### XCode Development Environment

First Apple's XCode development environment is discussed and how to create and manage projects.

### ANSI C Syntax

Next attention is paid to the basic syntax of the ANSI C programming language with statements, variables, data types, declarations, selections with if and iterations with for and while loops.

### Functions, Data Structures and Pointers

Also more advanced features of C are addressed like using functions and passing of parameters, creating user defined data types with structs and typedefs, working with pointers and addressing and allocating memory.

### Classes in Objective C

Next specific Objective C features like objects, classes, instance variables and methods are discussed as well as object communication through messages, accessors and properties.

### Foundation Framework

Also the Foundation framework that provides a set of useful primitive Objective C classes is treated as well as the functionality that it adds to Objective C.

### Objective C Memory Management

Finally the memory management model of Objective C is on the course program.

## Modules Course Objective C Programming

Module 1 : XCode Intro	Module 2 : ANSI C language	Module 3 : C constructs
Xcode IDE Project creation Setting preferences Using navigator Groups Code Editor Jump bar Utilities	Variables Data types Operators Selections if and else switch and case Iterations for and while	Arrays Functions Scope of variables Parameter passing Call by value Structs and Enums Typedefs Pointers
Module 4 : Objective C	Module 5 : Foundation Framework	Module 6 : Memory Management
Objects and Classes Implementing a Class Creating Objects Instance variables Using Methods Using Properties Property Attributes Method Dispatch Custom Initializers Designated Initializers _INITIALIZER Chain	What is Foundation Framework? NSObject Strings NSString Using Arrays NSArray NSNumber NSDictionary NSError NSData NSException	Memory Address Basics Memory Pointers Addresses Understanding Pointers Stack and Heap Memory Automatic Memory Management Requesting Memory Deallocating Memory Managing Memory in Objective-C Using the Retain/Release Model Retain counts