iPhone 360°
The ultimate application development course
Target Audience
Participants should possess an eagerness to learn programming and be keen to embark on a journey as architects of their own software!
A previous background in programming is not compulsory for the SAE iPD Basics Course as sessions include fundamentals of Objective C programming, in addition to the theories and techniques necessary to develop iPhone applications.
The prerequisite for the SAE iPD Advanced Course is either completion of the SAE iPD Basics Course or knowledge of Objective C programming language.

Course Rationale and Aim
iPhone App Dev Basics Course
This course focuses on the fundamentals of Objective C Programming for the iPhone & iPod Touch. Participants will be introduced to the programming environment for iPhone application development and will have a hands-on approach to Objective C programming using the tools provided in the iPhone Software Development Kit (SDK). Students will begin to understand the process of building apps.

iPhone App Dev Advanced Course
This course focuses on using the Objective C programming language to create an iPhone application. It also introduces participants to key theories, concepts, issues, and the business model of the Apple App Store along with Apple’s app review process. Students will learn the submission process to Apple for appraisal. Participants will be able to produce a functional application at the end of the course.

Learning Outcomes
iPhone App Dev Basics Course
On completion of this course, participants will be able to demonstrate:
• An understanding of the fundamentals of Objective C Programming
• The ability to code and fix Objective C applications
• The ability to test and debug applications

iPhone App Dev Advanced Course
On completion of this course, participants will be able to demonstrate:
• The ability to create a simple iPhone application.
• An understanding of the iPhone SDK
• The ability to prepare the application for submission
• An understanding of the Apple App Store review process
Course Content

**iPhone App Dev Basics Course**
- Introduction to Objective-C and the frameworks used for development
- Fundamentals of Objective C Programming
- iPhone SDK & programming environment
- Navigating around the iPhone programming environment and its various related resources

**iPhone App Dev Advanced Course**
- App Store business model
- Objective-C and the frameworks used for development
- MHI & MVC architectural pattern
- Resources and example tutorials on iPhone Developer website
- Preparation of iPhone application for submission
- Knowledge on how the Apple’s application process works

Course Outline

**iPhone App Dev Basics Course**
- Intro to Objective C
- Control Flow
- Program Structure
- Classes & Objectives
- Arrays & Pointers
- Memory Management
- Data Structures
- Software Design
- UIKit
- Connections
- Testing & Debugging
- Programming Style

**iPhone App Dev Advanced Course**
- Intro to iPhone Development
- Model/View/Controller Paradigm
- View Controllers & Navigation
- Table Views
- Handling Input
- Multimedia
- Data Storage
- Maps & Location
- Networking
- Building on the Device
- Performance & Debugging
- Preparing App