



FITZWILLIAM INSTITUTE GROUP

PROVIDING ACCREDITED PRACTICAL SKILLS TRAINING

ESTABLISHED OVER
25
YEARS

Diploma in Visual Basic.Net Programming with Visual Studio.Net Course by Distance Learning

Please find enclosed the details you requested reference the above course. We have also provided FAQs which can be found at the end of this document.

- The Fitzwilliam Institute Group is an established group of companies training over **3,000** people each year benefiting from over **25 years experience** in the training arena.
- The **Diploma in Visual Basic.Net Programming with Visual Studio.Net Course** is an **interactive** and **case study** based program written by **industry professionals**.
- The full course is delivered to participants immediately upon enrolment **online**, in **hard copy summary** format and on **CD Rom** in 15 working days.
- The Course is made up of several interactive modules with practical assignments at the end of selected modules. There is a real life project to be submitted at the end of the course culminating all modules studied.
- Full support is available from our **Subject Experts** by email at the end of each module and an on-going basis during the course.
- You will have full access to an **online account** and subject expert advice for one **full calendar year**.
- The Diploma is accredited by the **Institute of Commercial Management**. The qualification is both industry and internationally recognised in over 130 countries worldwide.
- The fee for the course is £995 for a limited time. Fees may be paid by cheque, bank draft, credit card, debit card, bank transfer or online at our [Payments Page](#) through PayPal which is a safe, fast and secure method of payment.
- For further information regarding course enrolment dates, please contact us via phone or email

If you wish to be considered for this course please telephone us on **020 7812 0708** or email info@FitzwilliamInstituteGroup.co.uk to arrange a consultation by phone.

Yours sincerely,

Noel Murphy
Director

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Company Number: 5000824 Registered in England & Wales

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BROCHURE

Diploma in Visual Basic.Net Programming with Visual Studio.Net by Distance Learning

Introduction

Microsoft Visual Basic.Net is world's second most popular programming after Java. It is one of several languages designed specifically for Microsoft's powerful .NET platform. Visual Basic.Net has become a language of choice for implementing Windows applications that integrate with the Internet and the Web. This course help novices become literate in Visual Basic.Net programming and help experienced programmers become skilled Visual Basic.Net developers. The course is up-to-the-minute with Microsoft's latest development tools and the .NET platform.

The introductory modules teach people with little or no programming experience how to program with the Visual Basic.Net programming language. Topics include introductory object-oriented programming, algorithmic thinking, problem solving, control statements, primitive types, operators, keyboard input, screen output, methods (user-defined and API), arrays and strings, event-driven programming, graphical user interfaces (GUIs) with Windows Forms and exception handling.

This practical course offers extensive hands-on experience as there are extensive programming exercises provided at the end of each module.. Solutions are provided for laboratory exercises. The course also provides you with further programming experience through projects that present real world programming experience.

This interactive course emphasizes achieving program clarity through the proven software-development techniques. Student learn skills that underlie good programming through extensive, complete, working programs. This hands-on approach rapidly builds the confidence of new programmers, because all programming concepts are presented in the context in which they will be used.

A real life brief for a client who wishes you to develop an application is a feature of this course.

Course Content

Introduction Overview of Visual **Basic.Net** *Programming*; Overview of the Visual Studio tools for building Visual **Basic.Net** applications

Introduction to the Visual Basic.Net 2008/2010 Express IDE Covered in the context of all the examples presented

Introduction to Visual Basic.Net Applications A Simple C# Application: Displaying a Line of Text; Creating Your Simple Application in Visual C# Express; Modifying Your Simple C# Application; Formatting Text with Console. Write and Console. WriteLine; Another C# Application: Adding Integers; Decision Making: Equality and Relational Operators

Introduction to Classes and Objects Classes, Objects, Methods, Properties and Instance Variables; Declaring a Class with a Method and Instantiating an Object of a Class; Declaring a Method with a Parameter; Instance Variables, Properties and Auto-Implemented Properties; Software Engineering with Properties and set and get Accessors; Value Types vs. Reference Types; Initializing Objects with Constructors; Floating-Point Numbers and Type decimal

Control Statements Algorithms; Pseudocode; Control Structures; if Single-Selection Statement; if...else Double-Selection Statement; while Repetition Statement; Formulating Algorithms: Counter-Controlled Repetition; Formulating Algorithms: Sentinel-Controlled Repetition; Formulating Algorithms: Nested Control Statements; Compound Assignment Operators; Increment and Decrement Operators; Simple Types; Essentials of Counter-Controlled Repetition; for Repetition Statement; Examples Using the for Statement; do...while Repetition Statement; switch Multiple-Selection Statement; break and continue Statements; Logical Operators

Methods static Methods, static Variables and Class Math; Declaring Methods with Multiple Parameters; Notes on Declaring and Using Methods; Method Call Stack and Activation Records; Argument Promotion and Casting; The Framework Class Library; Scaling and Shifting Random Numbers; Random-Number Repeatability for Testing and Debugging; Case Study: A Game of Chance (Introducing Enumerations); Scope of Declarations; Method Overloading; Passing Arguments: Pass-by-Value vs. Pass-by-Reference

Arrays Declaring and Creating Arrays; Examples Using Arrays; Case Study: Card Shuffling and Dealing Simulation; foreach Statement; Passing Arrays and Array Elements to Methods; Passing Arrays by Value and by Reference; Multidimensional Arrays; Variable-Length Argument Lists; Using Command-Line Arguments

Introduction to LINQ and Generic Collections Querying an Array Using LINQ; Introduction to Collections; Querying a Generic Collection Using LINQ

Classes and Objects: A Deeper Look Time Class Case Study; Controlling Access to Members; Referring to the Current Object's Members with the this Reference; Indexers; Time Class Case Study: Overloaded Constructors; Default and Parameterless Constructors; Composition; Garbage Collection and Destructors; static Class Members; readonly Instance Variables; Time Class Case Study: Creating Class Libraries; Class View and Object Browser

Object-Oriented Programming: Inheritance Base Classes and Derived Classes; protected Members; Relationship between Base Classes and Derived Classes; Creating and Using a Base Class; Creating a Class without Using Inheritance; Creating an Inheritance Hierarchy; Inheritance Hierarchy Using protected Instance Variables; Inheritance Hierarchy Using private Instance Variables; Class object

Polymorphism, Interfaces & Operator Overloading Polymorphism Examples; Demonstrating Polymorphic Behavior; Abstract Classes and Methods; Case Study: Payroll System Using Polymorphism; Operator is and Downcasting; Summary of the Allowed Assignments Between Base Class and Derived Class Variables; sealed Methods and Classes; Case Study: Creating and Using Interfaces; Common Interfaces of the .NET Framework Class Library; Operator Overloading

Exception Handling Exception Handling Overview; Example: Divide by Zero Without Exception Handling; Handling Exceptions and; Enclosing Code in a try Block; Catching Exceptions; Uncaught Exceptions; Termination Model of Exception Handling; Flow of Control When Exceptions Occur; .NET Exception Hierarchy; Determining Which Exceptions a Method Throws; finally Block; Exception Properties; User-Defined Exception Classes

Graphical User Interfaces with Windows Forms Windows Forms; Event Handling; A Simple Event-Driven GUI; Another Look at the Visual Studio Generated Code; Delegates and the Event-Handling Mechanism; Other Ways to Create Event Handlers; Locating Event Information; Control Properties and Layout; Labels, TextBoxes and Buttons; GroupBoxes and Panels; CheckBoxes and RadioButtons; PictureBoxes; ToolTips; NumericUpDown Control; Mouse-Event Handling;

Methods of Learning

Online Lecture Modules, Subject Expert Feedback Sessions after each Module, practical case studies, end of module assignments. etc.

Subject Experts

The Fitzwilliam Institute Group maintains a panel of qualified subject experts.

Who Should Apply

Anyone working in the IT industry in a senior or support position or those who wish to make a career change to IT. The course will also benefit anyone, who has Software development as part of their job specification.

Qualifications

Successful candidates qualify for the **Diploma in Visual Basic.Net Programming with Visual Studio.Net**. The Diploma is awarded at Distinction, Credit or Pass level. The diploma is accredited by the Institute of Commercial Management.

DISCLAIMER

Every effort is made to ensure accuracy; however responsibility is disclaimed for any error or omission in this brochure.

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Frequently Asked Questions

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COURSE SPECIFICS

For how long does the course run?

Course participants will have full access to the online course and subject expert advice for one full calendar year.

What is the course fee?

£995

When does the course start?

Please contact us on **020 7812 0708**, email info@FitzwilliamInstituteGroup.co.uk or visit www.FitzwilliamInstituteGroup.co.uk for the next enrolment date of this course. The full course content is delivered to participants immediately upon enrolment in a hard copy format and online.

Is this a fully comprehensive and fully inclusive course?

Yes. This distance learning course is designed to enable participants to develop an innovative and multi-skilled approach to developing software using **Visual Basic.Net**. It offers practical and specific case study based modules that can be applied in real world situations.

Will this course provide me with the skills to take on and create my own Applications?

Yes. The course project is aimed at providing you with the confidence and ability to take on and create a Visual Basic.Net Programme of any nature. The course guides you through all of the stages of developing software with Visual Basic.net, finally producing software which can be used as a template for future development projects.

Will this course help me get into the industry and build a network of contacts?

Yes. As the course is accredited by the industry and all our subject experts are themselves industry professionals, this provides you with direct access and resources within the industry.

Will I have contact with industry professionals from specialised areas?

Yes. Full support is available from our subject experts by email at the end of each module and an ongoing basis during the course. All subject experts are themselves Industry Professionals with many years experience.

Am I required to purchase any materials or books for this course?

No. The course includes comprehensive notes, a course CD Rom as well as on-line assistance from our subject experts. A folder of the entire course content is also sent to you in hard copy to your postal address. The course is designed to be as convenient and flexible as possible.

ASSESSMENT PROCESS

How are we assessed?

Through practical assignments and a final course project

Are there exams?

No. The course is centred around the practical **Visual Basic.Net Programme** presentation which is explained below.

Course Structure and Outline:

On commencing the course, you are provided with a username and password with which you sign in. There is a user guide at the very beginning explaining how to use and work your way through the course.

The course has been divided into a number of modules and will be evaluated by means of a Course Project. You are given the project brief and budget at the beginning of the course. There are 5 project assignments (each worth 20%) to be completed. These should be submitted via email to your subject expert.

Feedback on general queries takes 48 hours. Feedback on assignments takes a maximum of 10 working days.

APPLICATION PROCESS

How do I apply for a course / what is the application process?

The course can be booked and paid for online through our website at our course [Payments Page](#). If you have any additional queries after reading this brochure we simply ask you to contact us on **020 7812 0708** or e-mail us at info@FitzwilliamInstituteGroup.co.uk and ask to be booked in for a consultation; we will then arrange a time convenient for you.

Do I need any previous experience or qualifications to join this course?

We do not request any previous experience or qualifications.

COURSE ACCREDITATION

Is this course accredited?

Yes. This course is accredited by the Institute of Commercial Management (ICM).

Is it internationally recognised?

Yes. It is both industry recognised and internationally accredited.

How are the diplomas awarded in terms of grades?

Successful candidates qualify for the Diploma in **Visual Basic.Net Programming with Visual Studio**. The Diploma is awarded at Distinction, Credit or Pass level.

METHOD OF TRAINING

Method of Training/ How do we differ from others?

The type of training we specialise in is one of Practical Skills. We use methods such as Subject expert discussions, Practical Exercises/ Assignments, Projects, Case Studies, etc.

Who delivers the training/ classes?

The Fitzwilliam Institute Group maintains a panel of qualified and motivated industry professionals, who work as a team of subject experts monitoring each student's progress.

Who is the course aimed at/ will it suit my needs?

Anyone working in the IT industry in a senior or support position or those who wish to make a career change to IT. The course will also benefit anyone who has Software development as part of their job specification. This course is designed to be flexible and is therefore suitable for those who cannot attend live classes or prefer to study at their own pace.

How quickly can I obtain my Diploma?

On successful completion of this course, a Diploma will be issued by the Institute of Commercial Management.

Why would you recommend me to do this course above any other?

The Fitzwilliam Institute Group is part of an established group of companies training over **3,000** people each year benefiting from over 25 years experience in the training arena.

The approach we use is one of practical skills based training, delivered by people from the industry for the industry. Our courses are recognised internationally and accredited by the industry.

The comprehensive course you are embarking upon was written by industry professional; the subject experts also have a wealth of industry experience. The presentational Plan element is vital to anyone seeking to undertake a career in the IT Industry. The Institutional recognition of the course is a major factor also.