



Professional Training Courses in Computing and ICT

Developed and provided by
The School of Computing and Mathematical Sciences
Liverpool John Moores University



02.07 Edition

Course catalogue

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Training with LJMU

Welcome to our professional training course brochure. At LJMU we are committed to providing an extensive range of high-quality and state-of-the-art training packages and we hope you find the right course to help your organisation within these pages.

As part of a large modern University we are able to provide great flexibility within this portfolio and have gained industry respect through our ability to provide tailored training to large and small organisations. Give us a call with your own unique requirements today.

Venue

Liverpool John Moores University is based in the heart of the City of Liverpool (European Capital of Culture 2008).

All our courses are delivered in our superb dedicated facilities on our Campus situated in Byrom Street (close to the entrance to the Kingsway and Queensway Tunnels and a 5-minute walk from Liverpool Lime Street Rail Station).

All courses delivered on our Campus include lunch and light refreshments.

Course presenters

All our courses are developed and delivered by a team of senior academics and technical staff from the School of Computing and Mathematical Sciences. Our team is highly experienced in delivering high-quality training.

With all our training courses, delegates will learn hands-on skills, putting learning into practice. Scheduled courses are restricted to a maximum of 10 delegates to ensure maximum interaction with the Instructor. All delegates will receive a University certificate of attendance.

Block bookings

Discounts are available for organisations that send multiple delegates on a single course at the same time. Please contact us for up-to-date pricing information. Financial support may be available for Merseyside-based companies – please contact us for further information.

Course prices specified in this brochure are for a single delegate and are correct at time of going to press.

These courses can be customised to suit you, your staff and your project. Contact us with your requirements for a full quote.

All our scheduled courses are VAT exempt. Customised bespoke packages will incur VAT at the normal rate.

We are also able to deliver any of our courses at your own site if so desired. Please contact us for more information.

Booking details

For further details on any of our courses or to book a place, please contact:

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Once your place has been confirmed on one of our courses, you will receive written confirmation of your booking along with joining instructions.

No charge is made for cancellations at least 21 days before the first day of the course. For cancellations made between 7 and 20 days before the start of the course a charge of 50% will be payable. For cancellations less than 7 days notice, the full course fee will be payable.

The Microsoft .NET Framework

Objective

This two-day course provides delegates with an introduction to the technologies that comprise the Microsoft .NET strategy. This course is a high-level overview of multiple aspects of .NET. It is intended as a starting point for developers and business decision-makers to evaluate Microsoft .NET tools and its technologies. As an introduction to .NET, pointers to further training courses and other resources that give more detail on specific topics are provided.

Outline

This two-day course provides a practical opportunity to learn about the latest development technology from Microsoft, the .NET platform. This course will look at the various aspects of its framework, such as the CLR and the interoperability of languages such as VB.NET, C#.NET and J#.NET.

Course contents

- Overview and Introduction of the .NET framework and development platform
- Introduction to associated technologies and languages, C#.NET, VB.NET, ADO.NET and ASP.NET.
- Introduction to .NET components and the component based development model
- Introduction to ADO.NET database access model

What you will learn

Attending this training course will enable participants to have a fundamental understanding of:

- What the .NET framework is.
- How components of a software .NET system can be used.
- The various development languages that can be used within .NET framework.

Length

Two days

Cost

£550

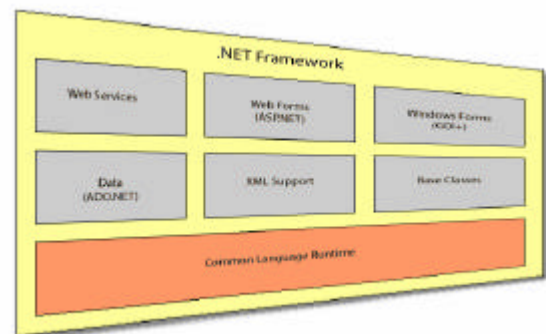
Who should attend

This course is intended for anyone who is evaluating Microsoft .NET tools and technologies, and provides pointers to resources where they can obtain specific skills for creating applications, components, and services built on the .NET Framework.

Format

This is an instructor-led course in a workshop-based setting, providing approximately 75% hands-on practical experience.

A comprehensive workbook and other necessary materials, including course notes and programming examples will be provided for each delegate.



C# Programming

Objective

This three-day course provides delegates with the knowledge and skills needed to develop C# applications for the Microsoft.NET Platform. Delegates will learn to build a wide range of applications and components.

Outline

This course covers the syntax as well as good coding practice in the use of the C# programming language and its associated development environment, Visual Studio .NET.

C# is an object-oriented programming language that is similar in syntax and style to both C++ and Java. To make effective use of the language, therefore, developers must understand both the essential elements of object-oriented programming and the realisation of those concepts in C#. This three-day course covers the fundamentals of object-oriented programming in C#. The course covers both the language and several of the classes available from the .NET framework. It illustrates the effective use of object-oriented features such as inheritance and polymorphism. Numerous exercises and laboratories provide students valuable "hands on" experience with C# programming.

Course contents

- What is programming?
- Introduction to C#.
- C# place in the .NET vision.
- Data types and structures.
- Objects and Classes, Methods, Keywords.
- Arrays and strings.
- Delegates and Events: Event Handlers and Publishers, Exception Handling.

What you will learn

Attending this training course will enable participants to:

- Write program code for .NET environments.
- Understand the use of C# features in the creation of robust software applications.

Length

Three days

Cost

£700

Who should attend

This course is aimed at anyone wanting to develop applications in C#.

Prerequisites

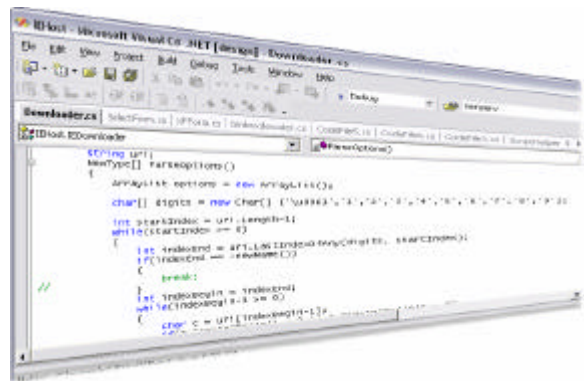
Attendees should understand the basics of programming.

Knowledge of C-style syntax, object-oriented concepts, or other object-oriented programming languages is helpful but not required.

Format

This is an instructor-led course in a workshop-based setting, providing approximately 50% hands-on practical experience.

A comprehensive workbook and other necessary materials, including course notes and programming examples will be provided for each delegate.



Visual Basic .NET Programming

Objective

The goal of this three-day course is to provide delegates with the knowledge and skills needed to develop Microsoft .NET based applications by using Visual Basic .NET. The course focuses on user interfaces, program structure, language syntax, and implementation details.

Outline

Visual Basic .NET is a significant upgrade to Visual Basic and incorporates many new features and framework goals of the .NET architecture. These changes will allow Visual Basic developers to create enterprise applications for the .NET Platform and to create more traditional Visual Basic applications that can take advantage of the enhancements to the language.

Course contents

- Overview of the .NET Framework
- Introduction to Visual Basic.NET Programming
- VB.NET Fundamentals
- Object Oriented Features
- Procedures, Functions and Methods
- Understanding Classes in VB .NET
- Data Access
- File Access
- Forms Programming

What you will learn

Attending this training course will enable participants to:

- Use visual objects.
- Describe the basic structure of a Visual Basic .NET project and use the main features of the integrated development environment (IDE).
- Use the new language features and syntax in Visual Basic .NET.
- Explain the basic concepts and terminology of object-oriented design specifically for Visual Basic .NET.

- Explain and use the basic concepts and terminology of object-oriented programming in Visual Basic .NET.
- Create components in Visual Basic .NET.
- Set up and deploy various types of Visual Basic .NET-based applications.
- Understand data access and Microsoft's data access paradigm – ADO.NET.

Length

Three days

Cost

£700

Who should attend

Professionals who wish to learn and utilise Visual Basic .NET and .NET technologies.

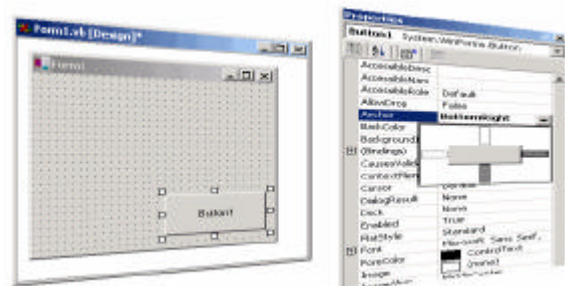
Prerequisites

Basic knowledge of programming is desirable.

Format

This is an instructor-led course in a workshop-based setting, providing approximately 50% hands-on practical experience.

A comprehensive workbook and other necessary materials, including course notes and programming examples will be provided for each delegate.



ASP.NET Development with C#

Objective

This two-day training course will provide delegates with a solid grounding in creating commercial ASP.NET web services and applications. Delegates are shown best practices throughout and given performance and design tips and guidelines. Worked ASP.NET examples will be in C# as required.

Outline

In this ASP.NET training course, students will learn to create sophisticated Web applications using ASP.NET with C#. This course does not teach the language of C# and it assumes some experience with Visual Studio .NET. Participants who are completely new to .NET should consider taking Introduction to C# training course before this one.

Course contents

- Getting started with ASP.NET
- ASP.NET Fundamentals
- Web forms
- Programming ASP.NET web forms
- Debugging & error handling
- Data manipulation with ADO.NET
- Data presentation and collection
- ASP.NET Web Services

What you will learn

Attending this training course will enable participants to:

- Create and debug ASP.NET web applications using C#.
- Create Web Forms, using HTML controls, Server Controls, Code Behind and inline Forms, State management and more.
- Create their own reusable User Controls, and Custom Server Controls.
- Manipulate, and present data using ADO.NET and server controls.

Length

Two days

Cost

£550

Who should attend

Developers who need to create commercial ASP.NET applications and web services

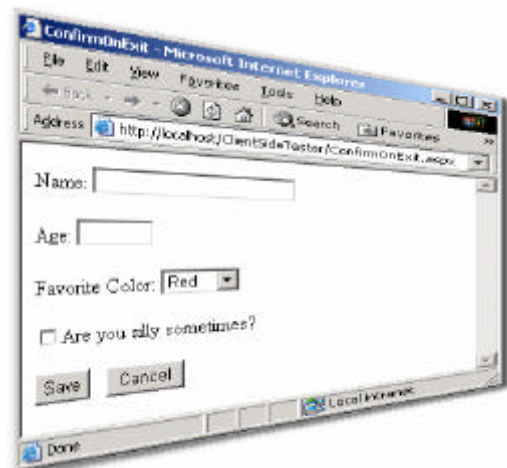
Prerequisites

Knowledge of HTML and Visual C# are assumed. Prior knowledge of object-oriented or procedural programming is helpful.

Format

This is an instructor-led course in a workshop-based setting, providing approximately 50% hands-on practical experience. Delegates learn by doing, with immediate opportunities to apply the material they learn to real-world problems.

A comprehensive workbook and other necessary materials, including course notes and all the programming examples will be provided for each delegate.



ASP.NET Development with Visual Basic.NET

Objective

This two-day training course will provide delegates with a solid grounding in creating commercial ASP.NET web services and applications. Delegates are shown best practices throughout and given performance and design tips and guidelines. Worked ASP.NET examples will be in Visual Basic.NET.

Outline

In this ASP.NET training course, participants will learn to create sophisticated Web applications using ASP.NET with Visual Basic.NET. This course does not teach the language of Visual Basic.NET and it assumes some experience with Visual Studio.NET framework. Participants who are completely new to .NET should consider taking Introduction to Visual Basic.NET training course before this one.

Course contents

- Introduction to ASP.NET with Visual Basic .NET
- Working with Web Forms Controls and Visual Basic .NET
- Validating User Input with Visual Basic .NET
- Debugging & error handling
- Data manipulation with ADO.NET
- Data presentation and collection with Visual Basic .NET
- ASP.NET Web Services

What you will learn

Attending this training course will enable participants to:

- Create and debug ASP.NET web applications using Visual Basic .NET.
- Create Web Forms, using HTML controls, Server Controls, Code Behind and inline Forms, State management and more.

- Create their own reusable User Controls, and Custom Server Controls using Visual Basic .NET.
- Manipulate, and present data using ADO.NET and server controls with Visual Basic .NET.

Length

Two days

Cost

£550

Who should attend

Developers who need to create commercial ASP.NET applications and web services

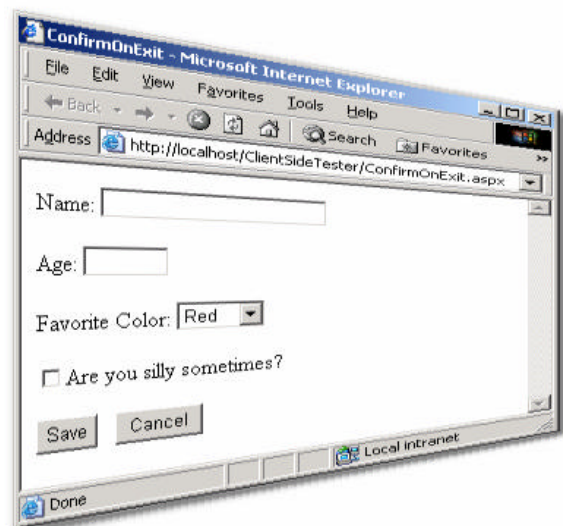
Prerequisites

Knowledge of HTML and Visual Basic.NET are assumed. Object-oriented or procedural programming knowledge would be helpful.

Format

This is an instructor-led course in a workshop-based setting, providing approximately 75% hands-on practical experience. Delegates learn by doing, with immediate opportunities to apply the material they learn to real-world problems.

A comprehensive workbook and other necessary materials, including course notes and all the programming examples will be provided for each delegate.



Introduction to XML

Objective

This three-day hands on course presents a thorough introduction to creating, validating, transforming, and formatting XML data. The course covers structuring data with XML; validating that data with document type definitions (DTDs) and schemas; and creating and viewing XML documents; Extensive examples and demos are provided, as well as comprehensive hands on lab exercises that reinforce the concepts being taught and introduce the practical application of XML to business problems.

Outline

eXtensible Markup Language (XML) enables users to create documents and databases whose contents are self-describing, i.e., the distinct items of data within such databases can be individually recognised and separately extracted from the medium in which they are typically stored and presented. This XML training course is designed to teach the technical aspects of implementing core XML standards and technologies, without neglecting the semantic and commercial constraints.

Course contents

- The need for XML.
- A comparison between XML and HTML.
- Writing XML documents.
- Validating XML documents.
- XML Schema as a model.

What you will learn

Attending this training course will enable participants to:

- Differentiate between the different XML technologies.
- Implement these technologies in an appropriate context.
- To be able to design XML documents and develop additional XML markup to enable validation of XML documents and transformations between different representations.
- Understand and apply transformation rules to XML documents.

Length

Three days

Cost

£750

Who should attend

- Software developers/programmers and their managers who need to evaluate or implement XML storage and data processing solutions.
- Web developers with some programming experience who need to evaluate or implement XML-based solutions for document preparation and processing.

Format

This is an instructor-led course in a workshop-based setting, providing approximately 75% hands-on practical experience.

A comprehensive workbook and other necessary materials, including course notes and programming examples will be provided for each delegate.

```
<?xml version="1.0" standalone="yes" ?>
<CV>
  <CandId>
    <CandId>10000</CandId>
  </CandId>
  <Interests>Cars and gadgets</Interests>
  <Summary>A computer science graduate with good grades</Summary>
  <Skill1>ASP.Net Development - Developed a number of E
  <Skill2>SQL Server - Database Design and Implementation
  <Skill3>Systems Design - Using UML and Agile methods</Skill3>
  <Skill4>Website Maintenance and management</Skill4>
  <Skill5 />
  <Achievement1>Successfully managed large scale project</Achievement1>
  <Achievement2>Setup spin-out company</Achievement2>
  <Achievement3 />
  <Achievement4 />
  <Achievement5 />
</CV>
```

Building XML Web Services with ASP.NET 2.0

Objective

This 3-day course provides a thorough introduction to the design, development, and deployment of XML Web services using ASP.NET 2.0, Microsoft's next generation development platform.

Outline

Web services are an established, yet constantly evolving set of standards that allow software programs on a wide number of computers to communicate with each other to share their functionality. Any client, no matter what language they are written in and no matter what platform they are running on, can access web services, being that they are based on standard protocols. This flexibility allows software applications to be built that have each part of their function distributed across machines and maintained separately. In turn, this flexibility produces unique design and deployment issues that must be understood before the exciting new business opportunities afforded by Web services can be fully realised.

This course is a hands-on guide to understanding how best to approach this new design paradigm through practical, realistic case studies. It will teach how to effectively design and expose web services, and introduce the skills needed to develop web services using ASP.NET 2.0, Microsoft's next generation development platform.

Course contents

What are Web services?

- Introduction to Distributed Computing
- Web Service Definition
- What is XML and Why is it So Important?
- Benefits to Using Web services
- Alternatives to Web services: RPC and Remoting

Designing Web services

- What makes a Web service a *service*?
- When to make software a service

- Understand the Acronyms: HTTP, XML, SOAP, WSDL
- Introducing Microsoft .NET 2.0
- A quick guide for other platforms: Java, C++.

Developing ASP.NET 2.0 Web services

- Using Visual Studio 2005 to write an ASP.NET web service
- An Overview of the Webservice Namespace
- From a Class to a Service: @Webservice Attributes
- Deploying and testing a Web service on IIS
- Writing a Web service client.

In Depth: SOAP and WSDL

SOAP's predecessor: XML-RPC

- The structure of a SOAP message
- Using SOAP headers
- WSDL Description Model
- WSDL Operations: Input, Output, and Fault
- Extending WSDL in .NET

Deploying Web services

- Publishing and Discovering Web services using UDDI
- UDDI Information Model
- Using UDDI in .NET
- Accessing UDDI Registries

Securing Web services

- Business opportunities in Web services
- Web service security techniques
- Acronym roundup: Web services via SSL, XKMS, SAML, and WS-Security

What you will learn

After completing the course, the delegate should have:

- A comprehensive understanding of the architecture and philosophy of web services.
- A detailed knowledge of the building blocks of Web services, including XML, SOAP, WSDL and UDDI.
- The skills required to create and consume Web services using the Microsoft .NET

Framework 2.0 and Visual Studio .NET 2005

- An understanding of the issues in the ASP.NET 2.0 programming model, such as caching, data handling and state management.
- An appreciation for securing Web services in a business context, using WS-Security, XKMS, and SAML.

Length

3 days

Cost

£750

Pre-requisites

Basic knowledge of XML and C# assumed. Object-orientated programming knowledge would be useful.

Who should attend

Software engineers and their managers who need to evaluate or implement distributed computing via Web services for their enterprise.

Software engineers who require teaching and more experience in Microsoft's next generation edition of .NET.



```
<?xml version="1.0"?>
<definitions xmlns="soap:envelope"
  xmlns:example="http://example.com/example"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  xmlns:soap="http://schemas.xmlsoap.org/soap/"
  targetNamespace="http://example.com/example">
  <schema targetNamespace="http://example.com/example"
    xmlns="http://www.w3.org/2001/XMLSchema"
    elementFormDefault="qualified">
    <complexType base="baseType" type="string"/>
    </complexType>
    <element name="TradePrice">
    <complexType base="price" type="float"/>
    </complexType>
  </schema>
</definitions>
```

Database Development using Microsoft SQL Server

Objective

This three-day training course will provide delegates with a solid grounding in the methods for creating and maintaining databases using the interactive tools provided by SQL Server Personal, Standard and Enterprise Editions.

Outline

During this course, participants will develop an understanding of the design considerations surrounding enterprise databases. You will become familiar with the various database tools provided with the Microsoft SQL Server database management system (DBMS) gaining an appreciation of the need for security and data maintenance/backups and learn the most effective ways of creating, accessing and manipulating data. Finally, participants will develop a working knowledge of SQL and the SQL Server programming language, Transact SQL (TSQL).

Course contents

- The SQL Server environment
- Administering SQL Server
- SQL Server security and integrity
- Creating databases, tables, indexes, relationships and, constraints
- Retrieving data, sorting data, joining tables and views
- Working with data, adding, updating, deleting and moving
- Transact SQL, query analyzing
- Programming objects, stored procedures and triggers

What you will learn

After attending this course, participants will be able to:

- Use the Enterprise Manager to connect to a database; start, stop and pause SQL Server; back up and restore a database; and manage SQL Server security functions.

- Create and manage databases, tables, indexes, relationships and constraints.
- Retrieve rows, use the SELECT statement, join tables and view data in a variety of ways.
- Add, delete and update rows, and import and export data to XML.
- Use the Transact SQL language; use stored procedures; create and manage triggers; and learn to handle errors.

Length

Three days

Cost

£750

Who should attend

Analysts and developers who need to create robust database solutions for the corporate and enterprise tier markets.

Prerequisites

Knowledge of database design principles and SQL would be useful but are not essential.

Format

This is an instructor-led course in a workshop-based setting, providing approximately 75% hands-on practical experience. Delegates learn by doing, with immediate opportunities to apply the material they learn to real-world problems.

A comprehensive workbook and other necessary materials, including course notes and all the programming examples will be provided for each delegate.



Grid Computing

Objective

The 2-day course provides an introduction to the concepts and issues surrounding the adoption of Grid computing to provide a model of distributed software.

Outline

Many commentators have speculated that grid computing will provide a basis for the 2nd generation of Internet technology. Many grid computing research applications are now underway including a Europe-wide initiative for business grid computing, D-Grid, as well as commercial successes from, amongst others, IBM and Sun Microsystems. Influenced by the service-oriented architecture including Web services standards, the Open Grid Services Architecture and Infrastructure (OGSA and OGSi) have been proposed following a recent period of applied research into the application of grid computing to a range of data intensive and high-throughput domains. OGSA and OGSi are under development primarily through a re-engineering effort of the Globus toolkit, an open source Grid deployment package developed by principally IBM and the University of Chicago.

This course teaches all the skills and knowledge required to successfully deploy and use the Globus toolkit in an enterprise environment, through both an appreciation of the theoretical challenges facing Grid computing, and practical, hands-on use of Grid technologies.

Course contents

Introduction to Distributed computing

- Networked Computing
- Web Services
- Issues Facing Distribution of Software

Grid Computing: The What, the How, the Why

- What is Grid Computing?
- How do you use a Grid?
- Why use Grid technology?

Grid Standards

- Web Services: RMI, SOAP, WSDL
- OGSi and OGSA
- Grid Web Service Standards: WSRF

Using Globus

- Toolkit Overview
- Installing Globus
- Securing Globus
- Writing Grid services with Java
- Writing Grid services with Microsoft .NET

What you will learn

After completing the course, the delegate should have:

- A comprehensive understanding of the architecture and philosophy of Grid computing.
- A detailed knowledge of the building blocks of Grid computing, including WSRF, OGSA, OGSi, Globus.
- The skills required to create and consume Grid services using the Microsoft .NET Framework and Java.

Length

2 days

Cost

£650

Pre-requisites

Knowledge of XML and basic programming skills assumed. Object-orientated programming knowledge would be useful.

Who should attend

Software engineers and their managers who need to evaluate or implement distributed computing via Grid technology for their enterprise.



Software Testing with Java

Objective

This course is aimed at Java developers who wish to learn more about the software testing process and specifically look at a number of tools and methods to assist in the test process.

Outline

Software testing is probably the most important aspect of the development cycle. In this course you will learn the concepts of software testing and apply methodologies for testing your Java software. We provide hands-on experience of the JUnit testing framework and also look at stress testing Java web applications.

Course contents

- What is software testing?
- Black box and white box testing
- Using program flow graphs to determine cyclomatic complexity of software
- Unit, module, system, integration, user acceptance testing
- Software testing strategies
- The JUnit testing framework
- The JMeter web application testing framework
- Managing software testing and maintenance

What you will learn

After attending this course, delegates will be able to:

- Describe the stages of software testing
- Apply a software testing methodology to the software development process
- Implement black box and white box testing practices
- Write test cases, drivers and stubs
- Use software tools to assist in the debugging process
- Use JUnit to create test suites for Java programs

- Use JMeter to stress test web applications

Length

Two days

Cost

£550

Who should attend

Java developers or IT personnel looking to move into the field of software testing.

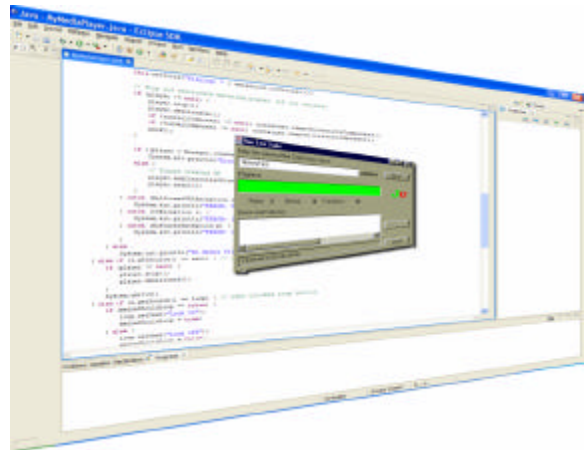
Prerequisites

Some prior knowledge of Java is required.

Format

This is an instructor-led course in a workshop-based setting, providing approximately 50% hands-on practical experience.

A comprehensive workbook and other necessary materials, including course notes and practical examples will be provided for each delegate.



Adobe Photoshop CS

Objective

The purpose of this two-day hands-on training course is to provide a breakdown of the features available in Adobe Photoshop CS and to develop the skills required in scanning and manipulating images.

Outline

Adobe Photoshop CS is the latest release of the industry leading Adobe Photoshop. This training course introduces Adobe Photoshop and explains the tools and features available, and how to best make use of them in a variety of scenarios. The aim is to enable delegates to be able to produce a broad range of images for use in documents including newsletters, product leaflets, adverts, posters and sales material. The course is also suited for the creation of on-screen and internet images.

Course contents

- Introduction to Photoshop CS
- Scanning Photographs and Images
- File formats
- Image Manipulation Techniques
- Image Repairing and Editing
- Using Layers
- Adjustment Layers
- Applying Filters
- Preparing Web images
- Other Features

What you will learn

Attending this training course will enable participants to:

- Use Adobe Photoshop CS for the development of digital images to specification to suit various media requirements.
- Use tools to repair and enhance the appearance of images.
- Create images from the combination of a number of 'layers'.
- Describe scenarios where Adobe Photoshop would be suitable.
- Optimise images to use on the Web.

Length

Two days

Cost

£550

Who should attend

Digital content professionals, professional web developers or digital photography enthusiasts.

Format

This is an instructor-led course in a workshop-based setting, providing approximately 75% hands-on practical experience.

A comprehensive workbook and other necessary materials, including course notes and practical examples will be provided for each delegate.



Flash MX

Objective

The purpose of this two-day course is to provide novice Macromedia Flash MX users with the hands-on instruction that will help them become competent with creating and designing multimedia applications and animations for the web.

Outline

This training course is designed to train web designers and developers how to create animations, presentations basic applications using Macromedia Flash MX. The course is task-based with participants learning through gaining experience.

Course contents

- Introducing Macromedia Flash MX
- Images and Graphic Assets
- Working with Text
- Animation
- Flash Navigation Systems
- Working with Movie clips
- Working with Sound and Video
- Publishing Flash Documents

What you will learn

Attending this training course will enable participants to:

- Navigate the Flash interface and understand the wide collection of functions.
- Create Flash documents and test them in a browser.
- Incorporate bitmap and vector images into Flash documents.
- Incorporate text and text form fields into Flash documents.
- Create Flash animations using different methods and techniques.
- Add sound and video to Flash documents.
- Publish Flash documents to meet different user needs.

Length

Two days

Cost

£550

Who should attend

Those interested in media-rich web sites beyond basic web design.

Prerequisites

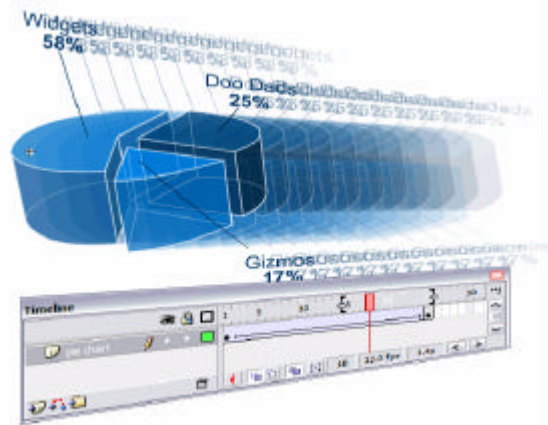
To undertake this course participants require basic computer skills with the ability to manage files and folders.

Prior exposure to Macromedia Flash MX is not necessary as full instruction will be given.

Format

This is an instructor-led course in a workshop-based setting, providing approximately 75% hands-on practical experience.

A comprehensive workbook and other necessary materials, including practical examples will be provided for each delegate.



Dreamweaver MX

Objective

This one day course covers not only the automated design features of Dreamweaver MX but the hypertext code editing services as well. The course will equip participants with the understanding needed to produce website designs.

Outline

Dreamweaver MX is the professional choice for building web sites and applications. It provides a powerful combination of visual layout tools, application development features, and code editing support that enabling developers and designers at every skill level to create visually appealing, standards-based sites and applications quickly.

Before getting started in Dreamweaver it's important to understand a little about HTML and how websites operate. In this course you're not expected to become HTML experts, but it's important to have a good understanding of it.

Course contents

- Getting started with Dreamweaver MX
- HTML Basics
- Using Dreamweaver to create HTML documents
 - Individual text properties and reusable styles
 - Working with tables for page margins
 - Using Images
 - Inserting and modifying images in Dreamweaver
 - Interactive images
 - Image mapping
- Connecting web pages
 - Linking pages
 - Creating links by using named anchors
 - Linking to web sites and e-mail addresses.
- Site Management Tools & Transferring Files with FTP
 - Remote and local views

Getting and putting files
Checking in and checking out
Testing servers

What you will learn

Attending this training course will enable participants to:

- Understand Dreamweaver's capabilities and the underlying HTML it creates.
- Create new web pages using Dreamweaver.
- Maintain existing web content.
- Create interactive and animated sites.

Length

One day

Cost

£300

Who should attend

This intensive Macromedia DreamWeaver MX training course is aimed for people who want to design and create interactive web pages for a website.

Format

This is an instructor-led course in a workshop-based setting, providing approximately 75% hands-on practical experience. Delegates learn by doing, with immediate opportunities to apply the material they learn to real-world problems.

A comprehensive workbook and other necessary materials, including course notes and working examples will be provided for each delegate.



Wireless Networking for the Home & Small Business

Objective

This course introduces the fundamental principles and issues surrounding basic wireless networking such as effective ranges (site reviews) and security concerns. The course will provide a practical understanding in to the process of setting up both peer to peer (P2P) and base station access point networking.

Outline

Wireless networking is an exiting and robust new methodology for connecting devices. The ability to be able to roam about without having to be physically connected to a wired network is an appealing one for all tiers of home and business use.

Throughout this course, delegates will gain extensive hands-on PC wireless network experiences under the guidance of an expert instructor.

Course contents

- Wireless Technologies (WiFi (802.11) & Bluetooth)
- Software & Protocols
- Hardware Components
- Wireless Principles, Issues & Best Practice
- IP Addresses
- DHCP vs. Static IP
- DNS
- WEP & WPA Security
- Setup a P2P WiFi network
- Setup an Access Point WiFi network
- Configure Microsoft Windows operating systems to use the network infrastructure

What you will learn

Attending this training course will enable participants to:

- Understand the core concepts and procedures surrounding the operation of WiFi & Bluetooth networks.

- Evaluate a site and its network requirements and derive a suitable wireless infrastructure to satisfy that evaluation.

Length

One day

Cost

£300

Who should attend

Anyone interested in developing simple yet highly useful networking skills, which can be implemented in homes or small businesses.

Format

This is an instructor-led course in a workshop-based setting, providing approximately 75% hands-on practical experience.

A comprehensive workbook and other necessary materials, including course notes and programming examples will be provided for each delegate.



Network Security

Objective

This two-day course aims to further the delegates' knowledge of computer and information security and to develop an understanding of network security threats and vulnerabilities. Practical skills will include the use of network security countermeasure technologies and associated tools.

Outline

The network is the backbone of many corporations and the network in this competitive age must be protected at all costs. Delegates will leave with the ability to quantitatively assess and measure threats to information assets; and discover where your organization is most vulnerable to hacking in this network security training course.

Course contents

- Network security: Introduction to network security, introduction to networking, what information can a hacker get?, network security attacks, security services.
- Introduction to encryption (conventional cryptography and PKI): The use of digital signatures, securing e-mail, Web site security, network viruses and worms, firewalls, Intrusion Detection Systems, the security role of system administrators (educating users, monitoring networks for security problems), common user security problems.
- Different security technologies: using networks to gain information, using firewalls to defend against attack, using Intrusion Detection Systems to detect misuse, protecting e-mail through encryption (PGP), signing documents/e-mails electronically, using network monitoring tools, using network vulnerability scanners to secure a network, attack response.

What you will learn

Attending this training course will enable participants to:

- Demonstrate an understanding of the threats and vulnerabilities to computer networks.

- Develop the use of network security countermeasures in a networked environment.
- Develop skills in the use of network security technologies.

Length

Two days

Cost

£550

Who should attend

IT professionals, auditors, management and others that need comprehensive review of the risks of today's networks.

Format

This is an instructor-led course in a workshop-based setting, providing approximately 75% hands-on practical experience.

A comprehensive workbook and other necessary materials, including course notes and programming examples will be provided for each delegate.



Forensic Computing

Objective

This four-day course aims to introduce delegates to the field of forensic computing for the organisation. Theoretical knowledge will develop delegates' understanding of the use of forensics within the organisation, conducting investigations and legal issues that these involve. Practical skills will include the use of forensic analysis technologies and associated tools.

Outline

IT facilitates both the commission of and investigation into hostile acts against the organisation. These acts range from criminal activities to contravention of conditions of employment that are covered by corporate law to malicious intrusion by 'hackers'. Increasingly, organisations are detecting and reporting malicious acts against their systems due to their reliance on IT and networks. Forensic computing is being widely adopted by organisations to investigate such acts.

Course contents

- Forensic computing: Introduction to forensic computing, the investigation process, forensic computing for law enforcement, national security and the organisation, legal issues, and future directions.
- Conducting investigations: the basics of hard drives and storage, the incident response process, preparing for incident response, data collection, network traffic collection, evidence handling, forensic analysis, analysis of other evidence, reporting and documentation, encryption and forensics, and hostile code.
- Different forensic computing technologies: investigating a computer to detect misuse, network analysis to detect hacking, detecting fraud, mobile phone and PDA analysis, evidence collection, and practical use of forensic tools.

What you will learn

After completing the course, the delegate should:

- Understand the fundamental technical concepts, implementation, and restrictions of computer forensics in the organisation.

- Develop practical skills in computer forensics.
- Analyse and evaluate physical and data evidence in computer forensics.

Length

Four days

Cost

£1236

Who should attend

IT professionals, system administrators, security professionals, legal professionals, management and others that need a comprehensive view of forensic computing.

Format

This is an instructor-led course in a workshop-based setting, providing approximately 75% hands-on practical experience.

A comprehensive workbook and other necessary materials, including course notes and forensic computing tools will be provided for each delegate.



Ethical Hacking

Objective

This four-day course aims to introduce delegates to ethical hacking to secure an organisation's systems and data resources. Theoretical knowledge will develop delegates' understanding of securing the corporate network infrastructure. Practical skills will include the use of specialist tools for penetration and stress testing to secure infrastructure resources.

Outline

Today's reliance on network and data resources necessitates the security of the corporate infrastructure. Ethical hacking, or penetration and stress testing, is one way to achieve the level of security required within the network environment. Delegates will leave with the ability to quantitatively assess and measure threats to the corporate infrastructure and discover the vulnerabilities in your networks. In this way, you will be able to develop comprehensive security plans to prevent your systems from compromise.

Course contents

- Network security: introduction to computer security, introduction to networking, what information can a hacker get? network attacks, social engineering, and countermeasures to attack.
- Penetration and stress testing: introduction to penetration and stress testing, step-by-step security planning, denial-of-service attacks, session hijacking, hacker reconnaissance methodologies, Trojans and viruses, password retrieval, network sniffing attacks, wireless network security testing, buffer overflows, and Web site security.
- Different penetration testing technologies: evaluate session hijacking methods, exploit Web server vulnerabilities, password crackers to obtain access, circumvent Intrusion Detection Systems and firewall protections, scan and penetrate wireless networks, and test UNIX and Microsoft servers for vulnerabilities.

What you will learn

After completing the course, the delegate should:

- Understand the fundamental technical concepts, implementation, and restrictions of penetration and stress testing for the development of a security plan.
- Develop practical skills in ethical hacking.

Length

Four days

Cost

£1236

Who should attend

IT professionals, system administrators, security professionals, management and others that need a comprehensive view of ethical hacking.

Format

This is an instructor-led course in a workshop-based setting, providing approximately 75% hands-on practical experience.

A comprehensive workbook and other necessary materials, including course notes and forensic computing tools will be provided for each delegate.



PC Maintenance and Repair

Objective

This two-day course provides an understanding and experience of Personal Computer construction including the skills required to identify and safely install/replace hardware components in order to repair and/or upgrade a PC.

Outline

There are certain skills needed to construct and repair a PC. This hands-on PC repair course familiarises delegates with standard PC hardware and software systems. Delegates dismantle and reassemble a PC, learning about industry standard hardware systems and components including CPUs, system memory, video adapters, sound cards, storage drives, network adapters, internal and external modems. Delegates will also be introduced to and practice standard PC support techniques with special regard to personal safety and system reliability. Diagnosis and resolution of common hardware failures and configuration/compatibility issues is introduced and delegates are given hands-on practice using proven troubleshooting techniques to solve problems.

Course contents

- Basic computer architecture/components: The purpose and operation of memory, processor, hard drives, expansion buses and other computer components.
- The elements and function of hardware devices.
- PC construction: Building a complete PC from components.
- The techniques used in PC repair.
- The use of software and an overview of operating systems.
- Software installation: Installing operating system software and application software.
- How computers communicate and are grouped to form networks.

What you will learn

Attending this training course will enable participants to:

- Identify and understand the purpose of various PC hardware components.

- Replace and/or install various PC hardware components, such as memory, modem, hard disk etc.
- Construct a complete and functioning PC.
- Install system software and application programs.
- Setup a simple network.

Length

Two days

Cost

£550

Who should attend

Anyone who uses or manages PCs and wishes to gain an insight into how they can be built/repared cost-effectively.

Format

This is an instructor-led course in a workshop-based setting, providing approximately 75% hands-on practical experience.

A comprehensive workbook and other necessary materials, including course notes will be provided for each delegate. Safety equipment is provided.



Introduction to IT Project Management

Objective

This two-day course is designed in order to give delegates the knowledge and skills required to use the tools and techniques required to increase the success of IT projects.

Outline

IT Projects have a terrible track record. In practice, only around 30% of IT projects are delivered “successfully” i.e., on-time, on-budget and with the required functionality. One of the key success factors in delivery project success is effective project management. There are a wide range of skills to master in order to be an effective project manager. This two-day course will provide an introduction to these skills.

Course contents

- Scope Management
- Time Management
- Cost Management
- Human Resource Management
- Risk Management
- Procurement Management

What you will learn

Upon completion of this course, delegates will be able to:

- Define and manage all the work required in a project
- Estimate how long it will take to complete the work
- Develop the project schedule using a software package (Microsoft Project)
- Ensure timely completion of the project using techniques such as earned value analysis
- Prepare and manage budgets for the project
- Make effective use of the people involved in the project
- Identify, analyse and respond to risks related to the project

- Learn when to acquire or procure goods and services that are required for a project from outside the organisation.

Length

Two days

Cost

£550

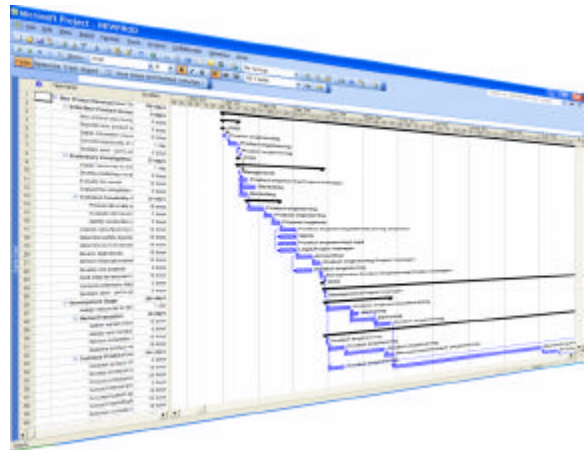
Who should attend

- New software project managers wanting to enhance their skills
- Anyone who may be involved in any aspect of IT project management

Format

This is an instructor led course in a workshop based setting, providing approximately 50% hands-on practical experience.

A comprehensive workbook and other necessary materials, including course notes and examples will be provided for each delegate.



Introduction to Sage Accounts

Objective

The purpose of this two-day course is designed in order to give delegates the knowledge and skills required to set up and operate an industry standard accounting package.

Outline

Sage Accounts is one of the most widely used accounts packages in the UK. This two-day course will provide a practical experience of the main functions of the package including invoicing, credit control and stock control. The skills obtained using the package can be transferred to a number of different accounts packages.

Course contents

- The role of the ledgers (nominal, sales and purchase)
- Customers
- Suppliers
- Products
- Invoicing
- Sales Order Processing
- Purchase Order Processing
- Financial Reporting including the balance sheet and profit & loss reports

What you will learn

Upon completion of this course, delegates will be able to:

- Install and set-up a typical accounts package
- Add customer, supplier and product details
- Produce invoices and update all the relevant ledgers
- Sell and purchase goods using the system
- Keep track of bank details

- Keep effective credit control within the company
- Use financial reports to make better informed business decisions
- Transfer data between systems (e.g. accounts package to database / spreadsheet etc.)

Length

Two days

Cost

£550

Who should attend

- Anyone working with a manual accounting system who wishes to gain the benefits that a computerised system will bring to the company.
- Accounts personnel who want to improve their skills,
- Anyone who wants to understand what their company accounts such as balance sheet are telling them.

Format

This is an instructor led course in a workshop based setting, providing approximately 75% hands-on practical experience.

A comprehensive workbook and other necessary materials, including course notes and examples will be provided for each delegate.

