

# Web Page Design (40-assignment)



This is an integrated instructional module designed specifically to operate within a Modular Program environment. It is ideal for use with our Scantek Technology or IT2020 Information Technology programs. It includes a 10-assignment exploratory curriculum and a further 30-assignment in-depth curriculum. The exploratory curriculum and the in-depth curriculum are each split into two parts. Each part includes a pre-test and post test. Where appropriate, the module includes software and curriculum materials sufficient to provide a complete learning experience.

The curriculum incorporates continuous assessment through questions. When used in conjunction with a ClassAct networked management system, this provides instant feedback of student performance. The assessments begin with a comprehensive pre-test. This quiz includes questions for each subsequent assignment, together with questions that will specifically test math and reading ability.

Every assignment starts with a series of questions designed to track inventory. These ensure that any missing items are located before they are needed.

Each assignment is divided into a series of tasks. Hands-on tasks introduce students to web page design, and are accompanied by research tasks based upon illustrated textbooks and on-screen applications. Assessment questions are incorporated into each task.

## **Exploratory Phase Topics:**

- Using a graphical web page editor
- Formatting text
- Creating and editing hyperlinks
- Creating tables
- Using themes
- Using navigation tools
- Working with dynamic images
- Building a simple web site
- Web site structure
- Using styles
- Hyperlinks
- Web site optimization
- HTML and DHTML
- Manipulating images
- Web site testing
- Image file formats
- Animations and effects
- The design loop

## **Exploratory Phase activities:**

- Creating a test page in order to learn the basics of file management.
- Creating a folder for work.
- Creating a home page and basic formatting techniques.
- Formatting a web page background.
- Creating contents pages.
- Using themes.
- Testing the web site.
- Applying the rollover function.
- Solving problems: the design loop process.
- Enhancing the navigation system of a web site.

## **Advanced Specialization Phase topics:**

- Using a graphical web page editor
- Creating and editing JavaScript
- Creating and using style sheets
- Dynamic HTML
- ActiveX controls and plug-ins
- Cross-browser compatibility
- Integrating forms and databases
- Creating and using cookies
- Internet, Intranet, and Extranet
- Building an e-commerce site
- Targeting business or consumers (B2B, B2C)
- Push and pull techniques
- Currencies and languages
- Assigning tasks and creating reports
- Database design
- Web site security
- Web site marketing
- Scripting technologies
- Web site management
- Web access devices
- Active server pages
- Graphics and animation

## **Advanced Specialization Phase activities:**

- Goals and objectives, aesthetics, navigation, image use, text layout, view window size.
- Design and develop site layout.
- Structures, tags, tables, headings, forms.
- Writing HTML code.
- Cross-browser compatibility.
- Cascading Style Sheets (CSS).
- Creating a web page using JavaScript.
- Creating and managing site using the Web tool.
- Linking pages, navigation and publishing.
- Creating a web site using DHTML components.
- Creating a local search tool.
- Previewing a site for cross-browser compatibility.
- Including extensions and plug-ins within a site.
- Linking a web site to a database.
- Investigating access times and connection speeds.
- Creating cookies.
- Exploring business 2 business and business 2 consumer.
- Exploring currency, shipping and taxes in e-commerce sites.

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**Advanced Specialization Phase activities (continued):**

- Investigating web site performance issues.
- Exploring ActiveX controls.
- Using cookies to enhance the web site users' experience.
- Handling online transactions.
- Exploring WAP and WML technologies.
- Creating dynamic objects.
- Building an e-commerce web site.
- Testing and evaluating web sites.
- Investigating web site access issues.
- Adding styles to web pages.
- Investigating web site creation tools.
- Exploring database design issues.

Each assignment is designed around a list of performance objectives. These lists include academic, technical and occupational objectives. The assignments are written in such a way as to enable a student to attain the performance objectives, with the assessment questions linked to these in order to provide a measure of true competency.

The performance objectives are used by the ClassAct management system to generate a comprehensive portfolio of student competency reports. Default reports supplied with this module include:

- Entry report
- Technical/Occupational Exit report
- Basic Skills report based upon the federal SCAN's report.

**The items supplied with this instructional module include:**

- 10-assignment On-Screen Student Assignment Guide CD
- 10-assignment Student Workbook
- 10-assignment Instructor's Guide
- 30-assignment Student Assignment Guide
- 30-assignment Student Workbook
- 30-assignment Instructor's Guide
- FrontPage Reference Guide
- Microsoft FrontPage
- Theory Support Software
- Simulation Software

**Additional items required:**

- Computer

**Module Facts**

For Technology Program, order as:  
ST610/40 Web Page Design

For IT Program, order as:  
PSD4C Web Page Design

	No.	Average time
Assignments	40	45 minutes
Extension Activities	4	45 minutes
<b>Total</b>		<b>33 hours</b>



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