

# WebMaster Design I

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“No Child Left Unchallenged”

## Course Description

*WebMaster Design I* will incorporate CIW Foundations into the course. CIW Foundations is a three-course series that teaches the essential, hands-on skills and knowledge that Internet professionals are expected to understand. The CIW Foundations series of courses prepares students to take the high-stakes CIW Foundations certification exam.

The three course series within CIW Foundations include Internet Business Foundations, Site Development Foundations, and Network Technology Foundations.

1. *Internet Business Foundations* teaches students about Internet connection methods, Internet protocols, the Domain Name System (DNS), the basic functions of Web browsers, the components of Web addresses, the use and control of cookies, objects and their relationship to multimedia, and the purpose and installation of plug-ins. This course also provides competency in using browsers to download and manage files, defining databases, distinguishing among Web search engines, and conducting basic and advanced Web searches. Students learn to configure e-mail clients and use e-mail, use various Internet services and tools, communicate effectively over the Internet, identify Internet security measures, and apply project management concepts and skills to all IT job roles. This course discusses the tasks involved in various Information Technology (IT) job roles.
2. *Site Development Foundations* teaches students essential Web page development skills. This course teaches students to develop Web sites using Extensible HTML (XHTML), and incorporating images, hyperlinks, tables, forms and frames. Students will learn to write code manually, as well as use graphical user interface (GUI) authoring tools. Other topics include validating XHTML code, recognizing the importance of marketing, implementing fundamental design concepts, identifying e-commerce solutions, and relating Web site development to business goals. The course also provides an introduction to tasks, job roles and careers in Web development. Throughout the course, students will learn how Web sites are developed as managed projects and how to work as a productive part of a Web site development team. Hands-on labs include real-world scenarios based on the Habitat for Humanity site ([www.habitat.org](http://www.habitat.org)).
3. *Network Technology Foundations* teaches essential networking technologies and skills, including TCP/IP, stable network creation, wireless networking and network troubleshooting. Students will learn to use various network components and protocols that enable users to share data quickly and easily. This course discusses transmission media types, network architecture and topologies, secure communication, and the OSI reference model and its relationship to packet creation. This course also provides competency in the functions and features of internetworking server types, basic hardware and operating system maintenance procedures, and the importance and use of RFC documents. Other topics include routing, IP addressing, IP address classes, subnet masks and essential network security concepts, including authentication, encryption and firewalls. Students also explore career opportunities in the IT industry and effective methods for communicating technical information.

Those students who pass all three of the CIW Foundations exams earn the highly respected CIW Associate certification, which is recognized throughout the industry as validating essential Internet skills for the workplace. The CIW Associate certification proves that an individual has evolved from being an Internet consumer to an Internet producer, capable of producing real-world Internet applications. A CIW Associate certificant can use common Internet-ready applications, can create properly formed HTML/XHTML documents, knows CGI and database essentials, and can troubleshoot networks.

#### **Prerequisites and Corequisites**

- Successful Completion of 6670
- Work well with others
- Work well independently
- Positive attitude and conduct

#### **Grading**

##### **Year Grading**

- 20% Period 1
- 20% Period 2
- 10% Mid Term
- 20% Period 3
- 20% Period 4
- 10% Final

##### **Grading Period Breakdown: (percentages will change in later grading periods)**

30% Quizzes and Tests

30% Projects

40% Assignments

- Projects and Assignments are due on their specified date. Only excused absences will be accepted. In this case, the work is due on the next scheduled class meeting.
- Students (themselves) are responsible for missed work; this includes inquiry and completion.

##### **Grade Scale**

A	93 - 100
B+	90 - 92
B	84 - 89
C+	81 - 83
D+	71 - 73
D	65 - 70

##### **Required Materials:**

- 3 ring binder (of your selection that will hold all of your class material)
- USB Storage Device, minimum size 1Gig and a storage medium to back up the USB Drive

[SEAPerchPWCS.org](http://SEAPerchPWCS.org)

[BattlefieldIT.org](http://BattlefieldIT.org)

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