

**CompuScholar, Inc.**  
 Alignment to  
*"Certified Internet Web (CIW) Web Foundations Associate "*  
 Certification Exam Requirements

**CIW Exam Details:**

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| <b>Exam Title:</b>   | Certified Internet Web (CIW) Web Foundations Associate |
| <b>Exam Code(s):</b> | 1D0-610  |
| <b>Exam Link:</b>    | <a href="#">CIW Web Foundations Associate</a>          |

**CompuScholar Course Details (Primary Resource):**

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| <b>Course Title:</b> | Web Design        |
| <b>Course ISBN:</b>  | 978-0-9887070-3-0 |
| <b>Course Year:</b>  | 2023              |

**CompuScholar Course Details (Secondary Resources):**

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| <b>Course Title:</b> | Digital Savvy, 2023, ISBN 978-0-9887070-8-5    |
| <b>Course Year:</b>  | Java Programming, 2023, ISBN 978-1-946113-99-3 |

**Note 1:** Citation(s) listed may represent a subset of the instances where objectives are met throughout the course.

**Note 2:** Citation(s) for a "Lesson" refer to the "Lesson Text" elements and associated "Activities" within the course, unless otherwise noted. The "Instructional Video" components are supplements designed to introduce or re-enforce the main lesson concepts, and the Lesson Text contains full details.

**Note 3:** All citations below refer to the primary resource, Web Design, unless prefixed with "See Digital Savvy" or "See Java Programming".

## Course Description

The "CIW Site Development Associate" exam is designed to test knowledge of three domains: Internet Business Associate, Site Development Associate, and Network Technology Associate. Due to the diversity and depth of the topics, more than one year of study and more than one course is generally needed for preparation.

The CompuScholar "Web Design" course teaches fundamental HTML, CSS, and JavaScript skills. It can be used as a primary resource for this CIW exam. Additional exam topics are covered by CompuScholar's "Digital Savvy" and "Java Programming" courses where noted.

## Exam Requirements

| Domain 1: Internet Business Associate  | CITATION(S)   |
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| 1.1 Identify job roles in the Information Technology (IT) industry, including the responsibilities, tasks and skills they require.   | Supplemental Lesson 4<br>Supplemental Lesson 8  |
| 1.2 Identify the infrastructure required to access the Internet, including hardware and software components.   | Chapter 1, Lesson 1<br>Chapter 15 (all Lessons)   |
| 1.3 Define important Internet communications protocols and their roles in delivering basic Internet services.  | Chapter 15, Lesson 2<br>Chapter 15, Lesson 5  |
| 1.4 Identify the basic principles of the Domain Name System (DNS).   | Chapter 15, Lesson 3  |
| 1.5 Identify the functions of Web browsers, and use them to access the World Wide Web and other computer resources.  | Chapter 1, Lesson 1<br>Chapter 2, Lesson 2<br>Chapter 13, Lesson 2                                  |
| 1.6 Use e-mail clients to send simple messages and files to other Internet users.  | See Digital Savvy, Chapter 16, Lesson 1   |
| 1.7 Define and use additional networking and Internet services.  | Chapter 15 (all Lessons)<br>Supplemental Lesson 2<br>Supplemental Lesson 3<br>Supplemental Lesson 9 |
| 1.8 Demonstrate ways to communicate effectively using Internet technology.   | See Digital Savvy, Chapter 16   |
| 1.9 Identify and configure user customization features in Web browsers, including preferences, caching, cookies.   | n/a   |
| 1.10 Identify security issues related to Internet clients (e.g., Web browsers, e-mail, instant messaging) in the workplace, including certificates, malware, illicit servers, viruses. | Chapter 16, Lesson 2  |
| 1.11 Use different types of Web search engines effectively.  | Supplemental Lesson 3   |
| 1.12 Identify and use principles of Personal Information Management (PIM), including common applications.  | See Java Programming, Suppl. Chapter 3, Lesson 4  |
| 1.13 Efficiently transmit text and binary files using popular Internet services.   | Chapter 15, Lesson 5  |
| 1.14 Identify security-related ethical and legal issues faced by IT professionals.   | Chapter 16, Lesson 1<br>Chapter 16, Lesson 2  |
| 1.15 Relate project management concepts and terms to the IT profession.  | Chapter 14 (all Lessons)<br>Supplemental Lesson 4<br>Supplemental Lesson 8                          |
| 1.16 Recognize essential database concepts.  | See Digital Savvy, Chapter 12   |
| 1.17 Conduct a Webcast and related services.   | n/a   |
| 1.18 Distinguish between proprietary and open-source development models.   | Chapter 16, Lesson 1  |

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| 1.19 Define essential social networking and Web 2.0 concepts. | See Digital Savvy, Chapters 17, 18               |
| 1.20 Manage career opportunities in the IT industry.          | Supplemental Lesson 8<br>Supplemental Activity 8 |
| 1.21 Represent technical issues to a non-technical audience.  | Supplemental Lesson 7                            |

| <b>Domain 2: Site Development Associate</b>  | <b>CITATION(S)</b>   |
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| 2.1 Demonstrate knowledge required to create a Web page.   | Web pages created throughout the course                              |
| 2.2 Add images and graphical formatting to HTML files, and create and edit images and audio.   | Chapter 11, Lesson 1<br>Chapter 11, Lesson 2                         |
| 2.3 Identify and use design and color principles for Web pages.  | Chapter 6, Lesson 2<br>Chapter 10, Lesson 1                          |
| 2.4 Create a basic HTML form that accepts user input.  | Supplemental Lesson 11   |
| 2.6 Define Extensible Markup Language (XML), and identify its features and appropriate use.  | Chapter 1, Lesson 2  |
| 2.7 Identify essential Web site navigation issues, and ensure page/site accessibility.   | Chapter 5, Lesson 3<br>Chapter 13, Lesson 1                          |
| 2.8 Define and apply essential aspects of the Cascading Style Sheets (CSS) standard, including CSS versions 1, 2 and 3.                                | Chapter 6 and subsequent chapters                                    |
| 2.9 Use the most current version of Hypertext Markup Language (HTML5) to create Web pages.   | HTML5 is used throughout the course                                  |
| 2.10 Identify technologies for enhancing the user's Web experience, including programming languages, multimedia technologies.                          | Chapter 13, Lesson 3<br>Chapter 25                                   |
| 2.11 Use GUI-based HTML editing software to create Web pages.  | Chapter 16, Lesson 4<br>Second-semester activities                   |
| 2.12 Test and analyze Web site performance issues.   | Supplemental Lesson 1<br>Supplemental Lesson 9                       |
| 2.13 Identify steps in the Web site planning and development process.  | Chapter 14 (all Lessons)<br>Supplemental Lesson 4                    |
| 2.14 Identify essential issues in developing and maintaining a Web site, including project management, testing, legal issues.                          | Chapter 16, Lesson 1<br>Chapter 16, Lesson 2                         |
| 2.15 Plan and deliver oral presentations of your Web site, during and after site development.  | Chapter 14 (all Activities)  |
| 2.16 Define electronic commerce (e-commerce) and related technologies and concepts necessary to develop a secure, useful interface (i.e., storefront). | Chapter 13, Lesson 3<br>Chapter 13, Lesson 4<br>Chapter 16, Lesson 2 |
| 2.17 Demonstrate knowledge of languages commonly used to provide database connectivity to Web sites.   | Chapter 13, Lesson 3   |
| 2.18 Identify the benefits and drawbacks of running your own Web server versus using a service provider.   | Supplemental Lesson 1  |

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| 2.19 Identify common strategies for managing an end user's experience and improving site creativity. | Chapter 6, Lesson 2<br>Chapter 10, Lesson 1                                      |
| 2.20 Consider copyright and ethical issues when creating Web pages.                                  | Chapter 11, Lesson 1<br>Chapter 16, Lesson 1                                     |
| 2.21 Design Web pages to industry standards.   | Chapter 13, Lesson 2 (WCAG 2.0),<br>plus HTML5 in all chapters and<br>activities |

| <b>Domain 3: Network Technology Associate</b>  | <b>CITATION(S)</b>   |
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| 3.1 Demonstrate knowledge of basic data communications components, and demonstrate technical knowledge of the Internet.    | Chapter 15, Lesson 2<br>Chapter 15, Lesson 3<br>Chapter 15, Lesson 4 |
| 3.2 Identify the role of networking hardware, and configure common hardware for operation.                                 | Chapter 15, Lesson 3<br>(identify only)                              |
| 3.3 Identify the relationship between IP addresses and domain names, including assignment of IP addresses within a subnet. | Chapter 15, Lesson 3<br>Chapter 15, Lesson 4                         |
| 3.4 Identify the functions and components of servers commonly used on the Internet.  | Chapter 15, Lesson 2   |
| 3.5 Identify common Internet security and availability issues, including user-level and enterprise-level concerns.         | Chapter 16, Lesson 2<br>Supplemental Lesson 1                        |
| 3.6 Identify common performance issues affecting Internet clients, including analysis, diagnosis.                          | Supplemental Lesson 9  |
| 3.7 Perform basic hardware and system maintenance for network-aware systems.   | See Digital Savvy, Chapter 5   |
| 3.8 Manage fundamental elements of modern network-based client operating systems.  | See Digital Savvy, Suppl. Chapter 3, Lesson 5                        |
| 3.9 Configure and troubleshoot wireless networks.  | See Digital Savvy, Suppl. Chapter 3, Lesson 5                        |
| 3.10 Demonstrate understanding of virtualization.  | Supplemental Lesson 1  |
| 3.11 Explain concepts involving personal privacy protection on the Internet.   | Chapter 16, Lesson 2   |