THE CIW WEB DEVELOPMENT SERIES
This series includes the essential combination of a front-end scripting language, a back-end programming language and the skills to integrate them with a database. Because of this diversity, the individual who completes this series will become a valuable corporate IT team member.

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**CIW JavaScript Specialist**
This course teaches developers how to use the features of the JavaScript language to design client-side, platform-independent solutions. Students will also understand and use the most popular applications of JavaScript. These specialized Web language skills can help you begin or grow a career in advanced Web development and technologies.

**Topics include:**
- JavaScript language essentials, including program flow control, form validation, image animation, frame targeting and cookie creation
- JavaScript code development, including writing programs and writing script for the JavaScript object model
- Web site implementation, including authoring and scripting, Web content creation, Web management and digital media tools

**Certification Exams**
To earn the CIW JavaScript Specialist certification, individuals must pass one exam:

CIW JavaScript Specialist exam (1D0-635)
50 questions | 90 minutes

**Typical Time to Teach**

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<td>Secondary</td>
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<td>Higher Education</td>
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<tr>
<td>Training Providers</td>
<td>one week</td>
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**RELATED JOBS AND CAREER PATHS**
- Software developers
- E-commerce site developers
- Web developers
- Application developers
- Client/server developers

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**CIW — The Industry Standard for Web Technology Education and Certification**
CIW is the world’s fastest growing vendor-neutral Internet skills training and certification program for students and professionals. More than a certification or a curriculum publisher, CIW is a Web technology standard adopted by academic institutions, governments and businesses worldwide. CIW includes applications and competencies, but our core curriculum focuses on the foundational standards that sustain the infrastructure of IT: Web design, e-commerce, security, networking and databases.
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CIW Perl Specialist
The CIW Perl Specialist course teaches developers how to fully use the features of the Perl programming language in Web application development. These specialized Web language skills can help you begin or grow a career in advanced Web development and technologies.

Topics include:
- Perl language essentials, including syntax, regular expressions and data types
- Perl code development, including accessing and manipulating files
- Web site implementation, including database connectivity and debugging techniques

Certification Exams
To earn the CIW Perl Specialist certification, individuals must pass one exam:
CIW Perl Specialist exam (1D0-437)
50 questions | 75 minutes

Typical Time to Teach

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RELATED JOBS AND CAREER PATHS

Software developers
E-commerce site developers
Web developers
Application developers
Client/server developers
THE CIW WEB DEVELOPMENT SERIES
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CIW Database Design Specialist
This certification validates knowledge of database design principals and theory, and their application to the most popular database platforms. The associated course prepares you for a better understanding of DB2, Oracle Database 11g, Microsoft SQL and mySQL.

The CIW Database Design Specialist course also discusses Structured Query Language (SQL) and optimization of databases through normalization. You will apply your knowledge with hands-on labs designed to teach the intricacies of database design methodology.

Topics include:
• Introduction to databases
• Relational database fundamentals
• Database planning
• Overview of database design methodology
• Normalization
• Logical and physical database design
• Structured Query Language (SQL)
• Relational algebra
• Transactions and database security

Certification Exams
To earn the CIW Database Design Specialist certification, individuals must pass one exam:

CIW Database Design Specialist exam (1D0-541)
50 questions | 90 minutes

Typical Time to Teach

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RELATED JOBS AND CAREER PATHS

Web developers  
Enterprise developers  
Programmers  
Database developers  
Application developers  
Database administrators

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