

HOW TO CREATE ACCESSIBLE WEB CONTENT

MEETING W3C/WAI AND SECTION 508 COMPLIANCE

A Course Offered by



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COURSE ON HOW TO CREATE ACCESSIBLE WEB CONTENT

COURSE OBJECTIVES

The course is primarily designed for software engineers, multimedia programmers, graphic designers and instructional designers. However, project managers and business development/marketing personnel will also benefit from this course. The objective of the course is to learn **how to implement international accessibility standards** in developing web content that is disabled friendly. The course provides a foundation on how people with disabilities access information on the web using mainstream browsers and specialised assistive technologies like screen readers. Participants will learn about the two main standards for web accessibility, the **W3C Web Accessibility Standards** and the **Section 508 requirements**.

How to use available **tools** to evaluate and create and/or repair web pages to make them accessibility compliant will be a part of the hands-on exercises. Participants will learn about common HTML accessibility problems and **HTML and CSS techniques** that can be used to improve accessibility. **Captioning of multimedia content** and accessibility of non-W3C technologies like **PDF** and **Flash** will also be discussed. Participants will be given an overview of the latest **XML standards for accessibility** that W3C is promoting.

Relevance of accessibility standards to **e-Learning** – an area of emerging importance - will also be discussed.

At the end of the training the participants will know the international standards on accessibility and how to design and develop web content that is friendly to a disabled audience and compliant with these standards.

TRAINING METHODOLOGY

Each session will start with the trainer giving an **overview** of topics to be covered in that session and the **theoretical background**. Where ever possible **case studies** will be used to explain the issues. The theoretical explanation will be followed by **hands-on exercises** so that, participants have practical understanding of developing accessible web content.

WHO SHOULD ATTEND

The course is primarily designed for:

- Software Engineers
- Multimedia Programmers
- Graphic Designers
- Instructional Designers

However, the following members of a typical web development team will also benefit from the course:

- Project Managers
- Business Development and Marketing personnel: who will be able to explain to potential clients how at minimal incremental cost the client can get the added advantage of an accessible design, thus adding a whole new audience segment. This is especially important if the marketing team is pitching to US based clients where Section 508 is fast gaining importance or if the target client is in the area of e-Learning.

COURSE PREREQUISITES

The student should have some knowledge of the web and html basics.

COURSE DURATION

This is a **24 hours course spread over three days.**

PROFILE OF THE TRAINER

The trainer for this course is Ms Shilpa Uttam, who heads the ED technical team and is based in New Delhi, India.

Shilpa has around 10 years of experience in client-server and Internet technologies. She has led teams to develop complex web based projects/products, multimedia products/projects and database projects. Some of the web based solutions for which she was the team leader include a B2C portal, a Virtual Stadium with live webcast of streaming audio-video content, web based loyalty system and multimedia rendering engine.

She has extensive experience on technologies like Visual Basic, Java, ASP, CGI, JavaScript, VBScript, HTML, Authorware, Mediaview, DHTML, MS Transaction Server, MS Site Server, MS Index Server, Front Page, XML, Perl.

Shilpa has also been working with the Haptic technology (touch based web interfaces) and is currently experimenting with the forced feedback technology to assist the visually challenged navigate web sites. She has also done a specialized seven weeks course on Web Accessibility from HTML Writers Guild, USA.

COURSE DETAILS

The following topics will be covered during the course:

- What is Universal Usability
- What is Universal Design
- What is Web Accessibility
- Understanding disabilities and situational disabilities
- Problems that the differently abled face while using the web
- Who defines the standard for Web Accessibility
 - W3C/WAI
 - Section 508
 - Accessibility legislation in other countries – UK, Canada...
- Differences between Section 508 guidelines and that set by the W3C/WAI
- What are Assistive technologies and showcase some of these technologies and how the differently abled use these assistive technologies to browse the web
- Basic principles of accessible design
- Priority and conformance levels for web accessibility
- WAI Guidelines Explained
 - Core guidelines
 - HTML guidelines (in-depth view)
 - Content guidelines (in-depth view)
 - Authoring Tools guidelines (overview)
 - User Agent Guidelines (overview)
 - CSS guidelines
- Use of audit and evaluation tools to identify accessibility related problems
 - Using A-prompt
 - Using Bobby
 - Using Vischeck
- Tips to make your web pages accessible
- Overview of repair tools and filter and transform tools that are available
- Flash and PDF Accessibility
- SMIL – Captioning Technology
- XML Accessibility Guidelines