Information and Communication Technology (ICT) Accessibility

Course Syllabus

About the Course

Individuals with disabilities often encounter barriers in accessing electronic information and using digital technologies. In this course, you will learn about the fundamentals of accessibility design in the ICT field. The course emphasis will be on identifying, evaluating and applying strategies and techniques for making electronic information and communication technology services and products in corporate, governmental, and not-for-profit organizations accessible to all users.

Course Goals

Students will learn about the fundamentals of accessibility design in the ICT field. At the end of the course, students will be able to identify, evaluate, and apply strategies and techniques for making electronic information and communication technology services and products accessible for employees and users in corporate, governmental, and not-for-profit organizations.

By the end of this course, participants should be able to:

- Summarize the foundations of ICT accessibility.
- Summarize the principles of accessible ICT design.
- Identify the uses of assistive technology.
- Create accessible documents and multimedia.
- Evaluate and repair websites for accessibility.
- Identify components of ICT accessibility operations.

Course Modules

This course is divided into six modules, each having associated activities and a quiz:

Module 1: ICT Accessibility

Background information on ICT accessibility and the future of electronic information accessibility.

Module 2: ICT Accessibility Design

The importance of design in accessibility, the value of container and content, and the evaluation of compliance.

Module 3: Assistive Technology

Impact of assistive technology on individuals with disabilities, federal laws related to assistive technology, definition of mainstream technology, and assistive technology demonstrations.

Module 4: Accessible Documents and Multimedia

Elements of an accessible document, accessibility standards, tools to check accessibility, multimedia captioning and audio description demonstration, audio description standards, guidelines, and resources.

Module 5: Web Accessibility Evaluation and Design

Web accessibility definition and overview, understanding interaction of web and users with accessibility needs, evaluating accessibility issues via online tools, remediation of code in order to achieve website accessibility, and contribution of HTML5 and ARIA to website accessibility.

Module 6: ICT Accessibility Operations

The influence of market forces on the development of enterprise ICT accessibility operations, challenges faced by these enterprises, Enterprise ICT accessibility operational model and how it can sustain enterprise accessibility operations.

Each module includes recommended and suggested activities for deeper exploration and learning of the content.

Recommended Background

This is an introductory course and no previous experience is required. Students are expected to have a general working knowledge of computer-based applications such as Microsoft Office: Word and PowerPoint.

Suggested Readings

This course is self contained, but there are many online sources that can be used for reference. These can be found by searching key words: ICT accessibility, assistive technology, digital and web accessibility. Other online sources include: [G3ict Web Accessibility Policy Making: An International Perspective Publication](#); [Section 508 of the Rehabilitation Act;](#) and the [Convention on the Rights of Persons with Disabilities](#) preamble, review [Accessibility at IBM: An integrated approach](#) and [The Assistive Technology Act of 1998, As Amended Public Law 108-364](#).

Course Format

The course consists of six modules comprised of multiple lessons. Students will be expected to view six to ten video lessons per module, and complete required quizzes. Module activities are recommended. Each module should take between 2-4 hours to complete.

Quizzes

Each module includes a required 10 question quiz. A grade of 70% on each quiz is required if you are seeking to obtain a verified certificate.