



# "الذكاء الاصطناعي للإمكانية: تصميم تكنولوجيا شاملة للجميع"

**Duration:** 5 Days

**Language:** ar

**Course Code:** PI2 - 134

## Objective

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

- .Understand the principles of accessibility and inclusive design •
- .Explore AI technologies that address diverse accessibility needs •
- .Integrate accessibility tools into digital platforms using AI •
- .Evaluate and improve products through user-centered design and accessibility audits •
- .Navigate ethical, legal, and societal considerations in inclusive AI development •

## Audience

:This course is tailored for

- .UX/UI Designers and Product Managers •
- .AI Developers and Software Engineers •
- .Accessibility Coordinators and Inclusion Officers •
- .Tech Entrepreneurs focused on assistive technologies •
- .Educators and NGOs working on disability rights •
- .Policy Makers and Legal Advisors in digital inclusion •

## Training Methodology

The course combines expert instruction, hands-on tool exploration, peer discussions, and inclusive design challenges. Participants will work on prototyping AI-enabled accessibility features and perform usability evaluations with simulated user feedback.

## Summary

Artificial Intelligence is not just transforming industries—it's unlocking new possibilities for inclusion. This course delves into how AI technologies can be intentionally designed to empower individuals with disabilities, improve digital accessibility, and promote equal participation across digital platforms.

Participants will explore practical AI applications that support visual, auditory, cognitive, and physical accessibility. From screen readers and speech recognition to predictive text and emotion AI, the course equips professionals with the tools and mindset to integrate inclusive design principles into their tech strategies. Through case studies, prototyping exercises, and ethical discussions, learners will gain the skills to build technologies that truly serve everyone.

## Course Content & Outline

### Section 1: Foundations of AI and Digital Accessibility

- What is accessibility? Key concepts and disability models
- The role of AI in inclusive tech development
- AI applications that enhance accessibility in daily life
- Overview of global standards (e.g. WCAG, ADA, EN 301 549)
- Case examples of inclusive AI in real-world products

### Section 2: AI Solutions for Diverse Accessibility Needs

- Vision: AI-powered image recognition and text-to-speech tools
- Hearing: Speech-to-text, sign language recognition, and captioning AI
- Cognitive: Predictive text, adaptive content, and assistive AI assistants

- .Physical: Voice-controlled navigation, gesture recognition, and robotics •
- .Tool lab: Exploring top accessibility APIs and open-source tools •

### **Section 3: Inclusive Design Principles in AI Development**

- .Human-centered design for accessible AI •
- .Co-designing with users who have disabilities •
- .Designing for adaptability and personalization •
- .Prototyping accessibility-first AI products •
- .Workshop: Redesigning a digital product with inclusivity in mind •

### **Section 4: Testing, Evaluation, and Compliance**

- .Conducting accessibility audits with AI tools •
- .User testing and simulation for diverse impairments •
- .Legal frameworks and policy compliance (ADA, GDPR, etc •
- .Metrics and benchmarks for accessible AI •
- .Activity: Accessibility gap assessment of an existing platform •

### **Section 5: Ethics, Inclusion, and the Future of Accessible AI**

- .Addressing bias and exclusion in AI algorithms •
- .AI and human dignity: Balancing autonomy and assistance •
- .Inclusive AI in public services, education, and employment •
- .Emerging trends: Neurodiverse AI interfaces and empathetic computing •
- .Final project: Present a proposal for an AI accessibility feature or initiative •

### **Certificate Description**

Holistique Training. عند إتمام هذه الدورة التدريبية بنجاح، سيحصل المشاركون على شهادة إتمام التدريب من (e-Certificate) وبالنسبة للذين يحضرون ويكملون الدورة التدريبية عبر الإنترنت، سيتم تزويدهم بشهادة إلكترونية من Holistique Training.

وخدمة اعتماد التطوير المهني (BAC) معتمدة من المجلس البريطاني للتقييم Holistique Training شهادات ISO 29993 أو ISO 21001 أو ISO 9001 كما أنها معتمدة وفق معايير، (CPD) المستمر

لهذه الدورة من خلال شهادتنا، وستظهر هذه النقاط على شهادة إتمام (CPD) يتم منح نقاط التطوير المهني المستمر واحدة عن كل ساعة CPD يتم منح نقطة، CPD وفقاً لمعايير خدمة اعتماد Holistique Training التدريب من

لأي دورة واحدة نقدمها حالياً CPD حضور في الدورة. ويمكن المطالبة بحد أقصى قدره 50 نقطة.

## Categories

الذكاء الاصطناعي وإدارة البيانات، الصحة والسلامة والبيئة، التكنولوجيا

## Related Articles



### ما هي أهمية التعاطف في القيادة؟

في عالم القيادة الحديث، يتزايد الاهتمام بأهمية صفات القائد، ومن بين هذه الصفات الرئيسية تبرز بشكل لافت صفة التعاطف. فالتعاطف لا يقتصر على مجرد مظهر إنساني، بل يمتد ليكون أحد العوامل الحيوية في تحقيق القيادة الفعالة.