



The 23rd International Asset Facility and Maintenance Management Conference

The Evolution of Continuing Education and the Future Role of Artificial Intelligence

A Case Study of the University of Sharjah



12-14 January 2026

Riyadh, KSA

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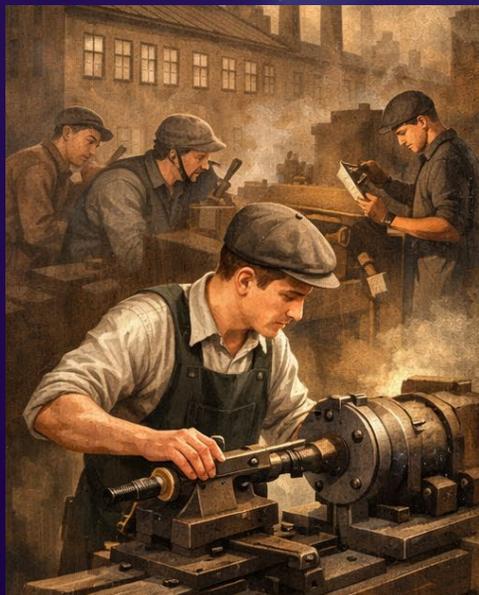
From Lifelong Learning to AI-Enabled Education

- **Shift from static education to lifelong learning**
- **AI as an enabler (Personalization, efficiency, relevance)**
- **Universities as engines of workforce & community resilience**

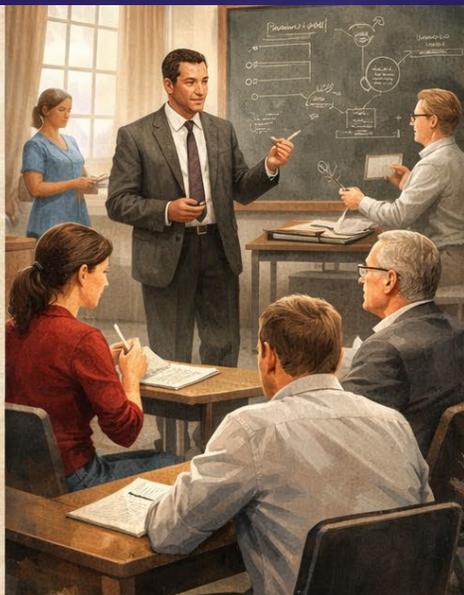


Evolution of Continuing Education

Past & Present of Continuing Education



Industrial era → skills & vocational training



Expansion to adult & professional education



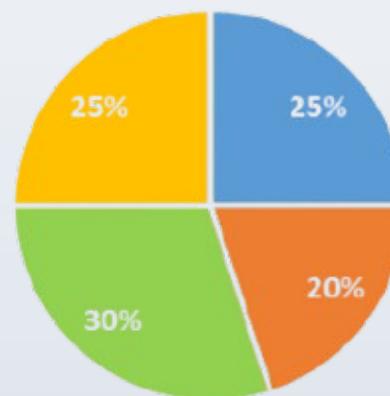
Today: flexible, industry-driven, and operationally aligned learning

Future of Continuous Education

Future Trends + Micro-credentials + Lifelong Culture

- **Personalized & AI-driven learning**
- **Micro-credentials & digital badges**
- **Industry-academia ecosystems**
- **Lifelong learning mindset**

Continious Education Trends and Innovation



- Personalized Learning
- Collaborative Learning Ecosystems
- Lifelong Learning Culture
- Microcredentials and Digital Badges

How AI Transforms Continuous Education

Role of AI + AI Software & Language Models

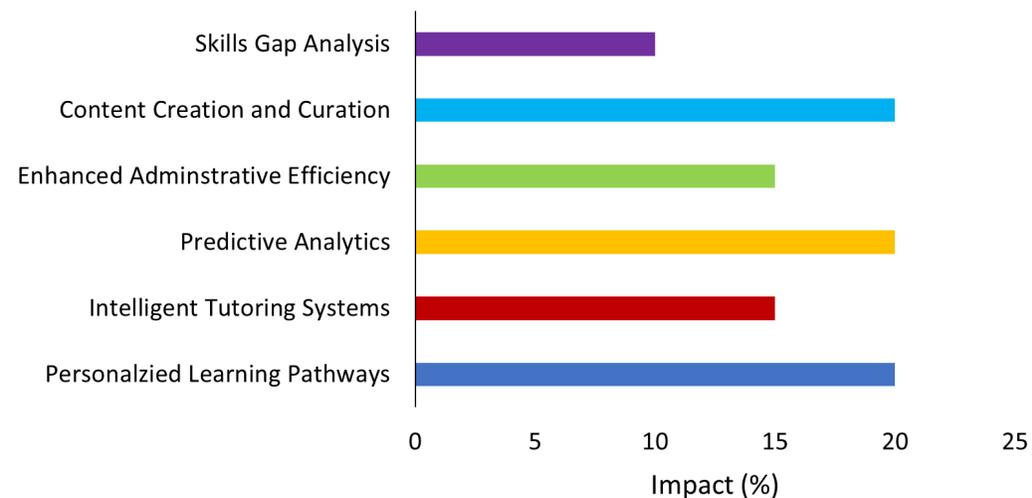
- **Personalized learning pathways**

- **Intelligent tutoring**

- **Predictive analytics & skills gap analysis**

- **Content creation & assessment**

Role of AI in Enhancing Continuous Education



AI in Education: Benefits & Risks

Advantages + Disadvantages of AI

Benefits

Personalization & scalability

Real-time feedback

Efficiency & workforce alignment

Risks

Cognitive offloading

Bias & data privacy

Overdependence on technology

Case Study: University of Sharjah – CCEPD

University of Sharjah + CCEPD Role

“This is not an academic initiative, but an operationally responsive model.”



- Personalized content with online access and automation.

**80+ programs
(2023–2024)**



- Design programs covering skills required today and in the future.

**Community-
focused & industry-
aligned**



- Partnering on projects to solve local community challenges.

**Consultancy &
Professional
Development**



- Expanding programs nationwide and regionally.

**National &
regional reach**

AI in Practice at CCEPD

AI Initiatives + Case Examples (+Figure 3)

- **Integrated IT System:**
Initiative Streamlines program management and analyzes learner data to personalize learning experiences.
- **AI-based Curriculum & Learning:**
Profiling supports the creation of customized content and adaptive learning paths.
- **Labor Market Analytics:**
Identifies skills gaps and guides program development to meet workforce needs.
- **Virtual Tutors & Adaptive:**
Provides real-time support and personalized guidance through AI-powered virtual tutors and adaptive platforms.

The Center for Continuing Education and Professional Development announces the

The Professional Diploma

" Artificial Intelligence (AI) Programmer "

"الدبلوم المهني - مبرمج الذكاء الاصطناعي"

27th Jul. 2024 – 15th Sep. 2024

(3-Days Weekly)

Saturday 09:00 am – 02:00 pm

Mon & Wed 04:30 am – 09:30 pm

Online training by Blackboard platform

Challenges, Governance & Future Outlook

Challenges + Governance + Future Tech

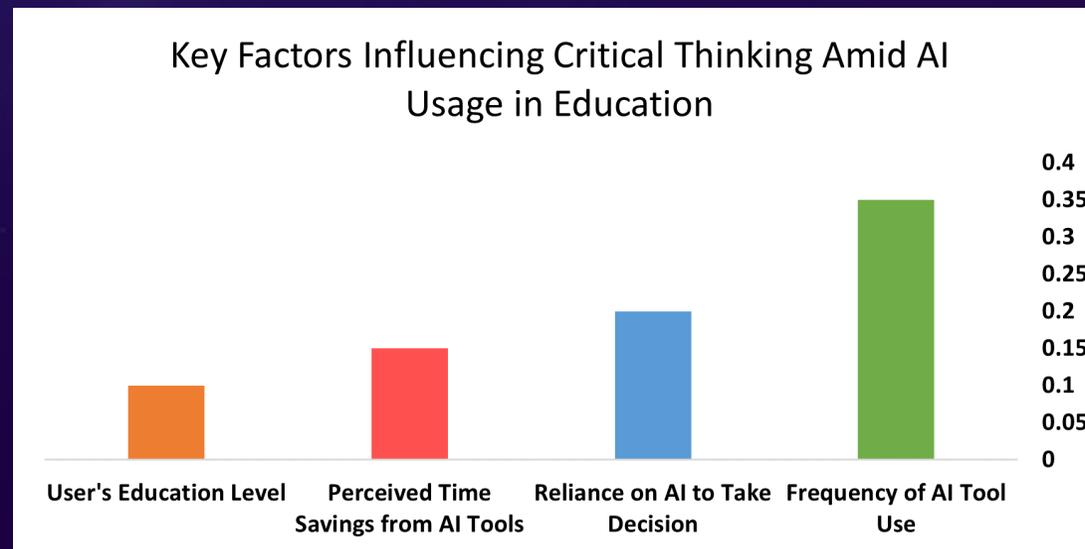
- **Bias in AI:**
Ensure fairness through regular audits.
- **Data privacy:**
Protect learner information with strict policies.
- **Educator upskilling:**
Train teachers to use AI effectively.
- **AR & Blockchain integration:**
Maintain transparency, accountability, and inclusivity.
- **Clear AI governance frameworks:**
Integrate AR & Blockchain thoughtfully.



Ethics & Cognitive Integrity in AI-Driven Learning

Cognitive Risks + Ethical Considerations (+Figure 4)

- **Reduced critical thinking:** Over-reliance on AI lowers independent reasoning.
- **Cognitive offloading:** Learner's delegate thinking tasks to AI.
- **Role of Continuing Education Centers:** Promote responsible AI use & maintain cognitive skills.
- **AI as collaborator:** Supports learning, doesn't replace human thinking.



Key Takeaways

Conclusion



Lifelong & adaptive learning

Continuous and flexible learning with personalized pathways supported by AI.



Ethics & cognitive integrity

Safeguarding critical thinking, creativity, and data within an ethical framework.



AI as enabler, not replacement

Supports human creativity and critical thinking, without replacing them.



Hybrid learning & global collaboration

Integrating AI with human mentorship and solving global challenges while developing modern skills.



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THANK YOU!



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