INTRODUCTION TO
ARTIFICIAL INTELLIGENCE

Skills to Advance
boost skills - boost business

This micro-qualification is designed to equip participants with **foundational knowledge, skills and competencies** in the rapidly evolving area of AI.

Participants will gain an understanding of **AI concepts, practical applications and ethical considerations**, and have opportunities to enhance their problem-solving abilities.

What content is covered within the programme?

UNIT 1
Introduction to AI
- History and evolution of AI
- Key concepts & terminology
- Current trends and prompt engineering

UNIT 2
Data Literacy
- Explore data trends
- Data collection, processing & analysis
- Visualisation: tables, graphs, charts
- Link between data and algorithms

UNIT 3
Demystifying Algorithms
- What algorithms are and how they work
- Inputs >> process >> outputs
- Computational thinking & design activities
- Training ML algorithms

UNIT 4
Real-World AI
- Human vs computer perception
- Applications: chatbots, translation, vision, GenAI
- AI limitations & human agency
- Social impact: jobs, skills of the future

UNIT 5
AI Ethics & Society
- Key ethical terms: bias, fairness, representation
- Human rights & tech ethics
- Algorithmic bias & ownership in AI art
- Social impacts: misinformation, deepfakes, privacy

UNIT 6
AI in Practice
- Case studies
- Hands-on assignments & teamwork
- Communication & presentation of AI concepts

Course Duration
Classroom Learning – *30 hours*
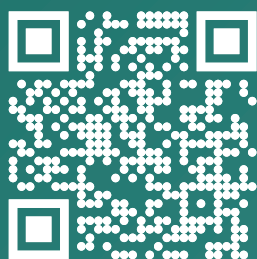Independent Learning – *20 hours*

Cost of Course
Highly subsidised - *your local ETB will advise on the final cost*

Course Assessment
Community or workplace-based project

Course Accreditation
QQI Level 4

Contact your local ETB for further information or visit

skillstoadvance.ie

SOLAS learning works

etbi Education and Training Boards Ireland / Boird Oideachais agus Oiliúna Éireann

Rialtas na hÉireann Government of Ireland