Accessible, City & Guilds Assured training and professional development for a career in Life Sciences

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# AI FOR TECHNICAL WRITING IN STEM



## This programme develops the practical skills needed to use generative AI responsibly and effectively when creating and improving technical documentation within STEM and regulated environments.

Learners explore how generative AI produces content, where it can fail, and how structured prompting can be used to improve technical writing while maintaining accuracy, traceability, terminology and appropriate document standards. Particular emphasis is placed on data integrity, confidentiality, authorship, governance and the responsible use of AI in regulated settings.

- 3 ONLINE SESSIONS
- 3 HOURS PER SESSION
- INDUSTRY-RELEVANT CURRICULUM
- SUPPORTS EMPLOYABILITY WITHIN IRELAND'S LIFE SCIENCES SECTOR
- DELIVERED BY EXPERIENCED INDUSTRY PROFESSIONALS
- CITY & GUILDS ASSURED PROGRAMME

## COURSE CONTENT

Module 1
**AI Fundamentals**

Module 2
**AI for Technical Writing**

Module 3
**Responsible AI**

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## Who should attend?

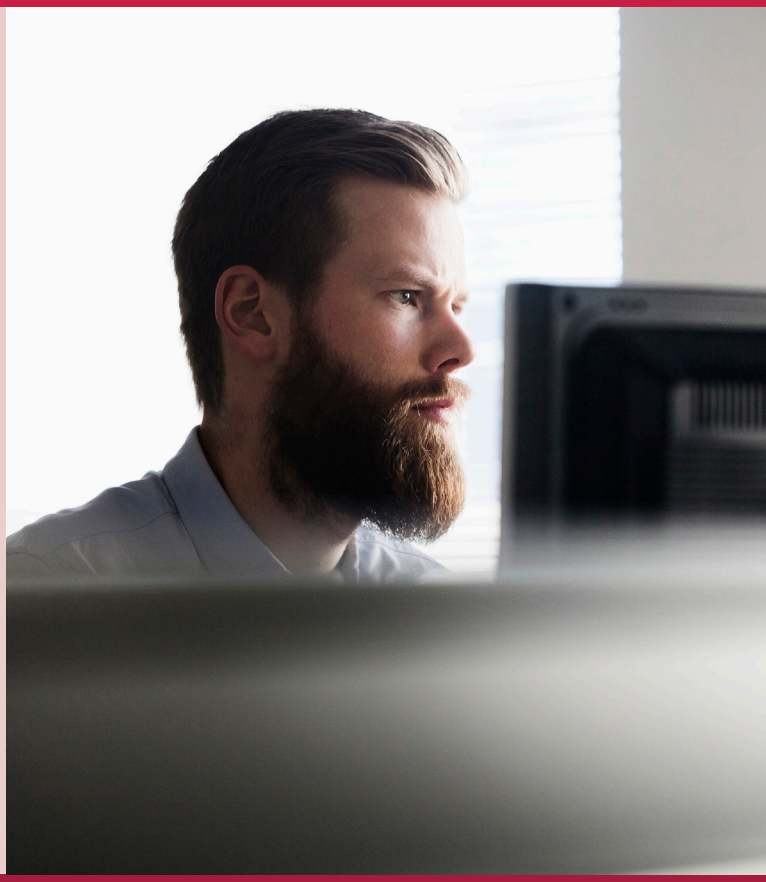
- **Professionals who produce or review technical documentation**
- **STEM and life-sciences professionals**
- **Personnel working in regulated environments**
- **Quality and compliance professionals using or considering generative AI**
- **Professionals seeking to use AI while maintaining documentation quality, confidentiality and data integrity**

## Learning Outcomes

AFTER THE PROGRAMME

On completion of this programme the learner should be able to:

- Explain how generative AI produces technical content and identify key failure modes
- Apply structured prompting techniques to technical writing
- Improve the clarity, structure and accessibility of workplace documents while preserving technical accuracy
- Evaluate AI-generated content against defined quality criteria
- Apply data-integrity, confidentiality, authorship and governance requirements
- Create an audit trail supporting verifiable and defensible AI-assisted practice



CAREER OPPORTUNITIES TO BEGIN OR PROGRESS A SUCCESSFUL CAREER:

- **Apply AI-assisted technical writing within existing STEM and regulated-industry roles**
- **Strengthen capability in technical documentation and document-quality activities**
- **Apply governed AI practices within documentation and quality processes**
- **Progress to further professional development in technical writing, quality assurance, regulatory affairs and data integrity**

# Use AI to write smarter, without compromising accuracy, integrity or compliance

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