



# CATALYST.AI



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**Accredited Skills Programme:**

# AI ESSENTIALS NQF Level 6

**TOTAL  
CREDITS:** 14

**DURATION**  
3 Months

**A:** 54 Wierda Road, St Andrews, Ground Floor, Wierda Valley, Sandton  
**Campus A:** Block M, Central Park, 400 16th Rd, Randjespark, Midrand, 1685

## PROGRAMME OVERVIEW

The AI Essentials skills programme is designed to provide participants with a comprehensive understanding of the fundamental concepts, principles, and applications of artificial intelligence (AI). This programme aims to equip participants with the knowledge necessary to keep pace with the rapid advancements in AI, understand its increasing industry adoption, democratize AI knowledge, and enable informed decision-making across various professional domains.

This skills programme is underpinned by:

SAQA ID	Title	Credits
115367	Demonstrate logical problem solving and error detection techniques	8
258838	Investigate implementation options for Information Technology (IT) solutions	6

## ENTRY REQUIREMENTS

To enrol in the AI Essentials skills programme, participants must meet the following entry requirements:

- Communication at NQF Level 5.
- Computer Literacy at NQF Level 5.

## LEARNING OUTCOMES

**By the end of this programme, participants will:**

1. Evaluate the latest advancements in AI technologies and their applications.
2. Analyse the impact of AI across various industries, including healthcare, finance, manufacturing, and marketing.
3. Identify opportunities, challenges, and ethical considerations in AI adoption.
4. Assess the societal implications of AI and the importance of diverse perspectives in its development.
5. Develop critical thinking skills to make informed decisions regarding AI implementation.
6. Promote responsible AI practices and inclusive AI education for diverse learners.

## PROGRAMME STRUCTURE

### Topic 1: Introduction to AI Foundations

- Overview of AI concepts and terminology.
- Historical perspective and evolution of AI.
- Importance of foundational knowledge in AI.

### Topic 2: Rapid Advancement in AI

- Exploration of recent breakthroughs and trends in AI.
- Implications of AI advancements on industries and society.
- Case studies on innovative AI applications.

### Topic 3: Industry Adoption of AI

- In-depth analysis of AI integration in healthcare, finance, manufacturing, marketing, and other sectors.
- Opportunities and challenges in industry specific AI adoption.

### Topic 4: Democratizing AI Knowledge

- Inclusivity in AI education.
- Societal impact of AI and the role of diverse perspectives.
- Ethical considerations in AI development.

**Topic 5: Informed Decision-Making in AI**

- Critical evaluation of AI applications.
- Balancing benefits and risks of AI adoption.
- Developing a framework for ethical AI decision-making.

**ASSESSMENT**

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- Formative and Summative Assessment: Continuous evaluation through theoretical and practical assessments.