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EXIN BCS Artificial Intelligence Foundation

Artificial Intelligence (AI) is a methodology for using a non-human system to learn from experience and imitate human intelligent behavior. The EXIN BCS Artificial Intelligence Foundation certification tests a candidate's knowledge and understanding of the terminology and general principles of AI. This Foundation certificate includes and expands on the knowledge taught in the EXIN BCS Essentials Certificate in Artificial Intelligence.

You will be able to

- Describe how Artificial Intelligence (AI) is Part of 'Universal Design,' and 'The Fourth Industrial Revolution'
- Demonstrate Understanding of the Artificial Intelligence (AI) Intelligent Agent Description
- Explain the Benefits of Artificial Intelligence (AI)
- Describe how we Learn from Data – Functionality, Software and Hardware
- Demonstrate an Understanding that Artificial Intelligence (AI) (in Particular, Machine Learning (ML)) will Drive Humans and Machines to Work Together
- Describe a 'Learning from Experience' Agile Approach to Projects

Who is this certification for?

The EXIN BCS Artificial Intelligence Foundation certification is focused on individuals with an interest in, (or need to implement) AI in an organization, especially those working in areas such as science, engineering, knowledge engineering, finance, education or IT services.

Main subjects

Ethical and Sustainable Human and Artificial Intelligence (AI)

Artificial Intelligence (AI) and Robotics

Applying the Benefits of Artificial Intelligence (AI) – Challenges and Risks

Starting Artificial Intelligence (AI): how to Build a Machine Learning (ML) Toolbox – Theory and Practice

The Management, Roles and Responsibilities of Humans and Machines

Required reading

Human + Machine - Reimagining Work in the Age of AI

Paul R. Daugherty and H. James Wilson

Harvard Business Review Press (2018)

ISBN: 978-1633693869

High-Level Expert Group on Artificial Intelligence Ethics Guidelines for Trustworthy AI

European Commission

B-1049 Brussels (April 2019)

Artificial Intelligence, A Modern Approach (3rd edition)

Stuart Russell and Peter Norvig

Pearson (2016)

ISBN: 9781292153964

Hands-On Machine Learning with Scikit-Learn and TensorFlow: Concepts, Tools, and Techniques to Build Intelligent Systems

D. Aurélien Géron

O'Reilly (2017)

ISBN: 9781491962299

The Singularity is Near

E. Ray Kurzweil

Duckworth Overlook (2005)

ISBN: 9780715635612

The Fourth Industrial Revolution

F. Klaus Schwab

Penguin Random House (2016)

ISBN: 9780241300756