

## Artificial Intelligence Foundation + exam

Duration: 3 Days Course Code: AIF

### Overview:

#### Take the next step in developing your knowledge and understanding of Artificial Intelligence with this training.

Learn the general principles of AI, its potential implications and capabilities and how to assess AI products and services from multiple angles. Examples of AI have been in the news a lot lately, it started with chatbots like Google Assistant and now ChatGPT. Of course, AI is much more than just chatbots, yet we will also discuss this to learn the do's and don't of this.

This 3-day course covers the potential benefits; types of Artificial Intelligence (AI); the basic process of Machine Learning (ML); the challenges and risks associated with an AI project, and the future of AI and People at Work.

### Target Audience:

The Artificial Intelligence Foundation certificate is aimed at individuals with an interest in (or need for) AI in an organisation, particularly those working in areas such as science, engineering, knowledge technology, finance or IT services.

The following job roles are mostly eligible;

Engineers Scientists Professional research managers Chief technical officers Chief information officers Organizational change practitioners and managers Business change practitioners and managers Service architects and managers Program and planning managers Service provider portfolio strategists / leads Process architects and managers Business strategists and consultants Web page developers

### Objectives:

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

### Prerequisites:

No specific prior knowledge is required.

### Testing and Certification

Successful completion of the EXIN BCS Artificial Intelligence Foundation exam.

#### Examination Details

- Examination type: Multiple-choice Questions
- Number of questions: 40
- Pass mark: 65%
- Open book/notes: No
- Electronic equipment/aides permitted: No
- Exam duration: 60 minutes

## Content:

1 Ethical and Sustainable Human and Artificial Intelligence (AI)	2.1.3 describe four types of agent: reflex, model-based reflex, goal-based and utility-based.	3.4.3 describe a domain expert.
1.1 Recall the General Definition of Human and Artificial Intelligence (AI)	2.1.4 identify the relationship of Artificial Intelligence (AI) agents with Machine Learning (ML).	3.4.4 describe what is 'fit-of-purpose'.
The candidate can...	2.2 Describe what a Robot is and:	3.4.5 describe the difference between waterfall and agile projects.
1.1.1 describe the concept of intelligent agents.	The candidate can...	3.5 List Opportunities for Artificial Intelligence (AI)
1.1.2 describe a modern approach to Human logical levels of thinking using Robert Dilt's Model.	2.2.1 describe robotic paradigms	3.6 Identify a Typical Funding Source for Artificial Intelligence (AI) Projects and Relate to the NASA Technology Readiness Levels (TRLs)
1.2 Describe what are Ethics and Trustworthy Artificial Intelligence (AI), in Particular:	2.3 Describe what an Intelligent Robot is and:	4 Starting Artificial Intelligence (AI): how to Build a Machine Learning (ML) Toolbox – Theory and Practice
The candidate can...	The candidate can...	4.1 Describe how we Learn from Data – Functionality, Software and Hardware
1.2.1 recall the general definition of Ethics.	2.3.1 relate intelligent robotics to intelligent agents.	The candidate can...
1.2.2 recall that a Human Centric Ethical Purpose respects fundamental rights, principles and values.	3 Applying the Benefits of Artificial Intelligence (AI) – Challenges and Risks	4.1.1 list common open source machine learning functionality, software and hardware.
1.2.3 recall that Ethical Purpose AI is delivered using Trustworthy Artificial Intelligence (AI) that is technically robust.	3.1 Describe how Sustainability Relates to Human-Centric Ethical Artificial Intelligence (AI) and how our Values will Drive our use of Artificial Intelligence (AI) and will Change Humans, Society and Organizations	4.1.2 describe introductory theory of Machine Learning (ML).
1.2.4 recall that the Human Centric Ethical Purpose Trustworthy Artificial Intelligence (AI) is continually assessed and monitored.	3.2 Explain the Benefits of Artificial Intelligence (AI) by:	4.1.3 describe typical tasks in the preparation of data.
1.3 Describe the Three Fundamental Areas of Sustainability and the United Nation's Seventeen Sustainability Goals	The candidate can...	4.1.4 describe typical types of Machine Learning (ML) Algorithms.
1.4 Describe how Artificial Intelligence (AI) is Part of 'Universal Design,' and 'The Fourth Industrial Revolution'	3.2.1 list advantages of machine and human and machine systems.	4.1.5 describe the typical methods of visualizing data.
1.5 Understand that Machine Learning (ML) is a Significant Contribution to the Growth of Artificial Intelligence (AI)	3.3 Describe the Challenges of Artificial Intelligence (AI), and:	4.2 Recall which Typical, Narrow Artificial Intelligence (AI) Capability is Useful in Machine Learning (ML) and Artificial Intelligence (AI) Agents' Functionality
The candidate can...	The candidate can...	5 The Management, Roles and Responsibilities of Humans and Machines
	3.3.1 give examples of general ethical challenges Artificial Intelligence (AI) raises.	5.1 Demonstrate an Understanding that
	3.3.2 give general examples of the limitations	

1.5.1 describe 'learning from experience' and how it relates to Machine Learning (ML) (Tom Mitchell's explicit definition).	of Artificial Intelligence (AI) systems compared to human systems.	Artificial Intelligence (AI) (in Particular, Machine Learning (ML)) will Drive Humans and Machines to Work Together
2 Artificial Intelligence (AI) and Robotics	3.4 Demonstrate Understanding of the Risks of Artificial Intelligence (AI) Projects, and:	5.2 List Future Directions of Humans and Machines Working Together
2.1 Demonstrate Understanding of the Artificial Intelligence (AI) Intelligent Agent Description, and:	The candidate can...	5.3 Describe a 'Learning from Experience' Agile Approach to Projects
The candidate can...	3.4.1 give at least one a general example of the risks of Artificial Intelligence (AI).	The candidate can...
2.1.1 list the four rational agent dependencies.	3.4.2 describe a typical Artificial Intelligence (AI) project team in particular.	5.3.1 describe the type of team members needed for an Agile project.
2.1.2 describe agents in terms of performance measure, environment, actuators and sensors.		

### Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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