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Artificial Intelligence (AI) 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'
- 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

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.
		3.4.4 describe what is 'fit-of-purpose'.
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).	3.4.5 describe the difference between waterfall and agile projects.
The candidate can		
1.1.1 describe the concept of intelligent	2.2 Describe what a Robot is and:	3.5 List Opportunities for Artificial Intelligence (AI)
	The candidate can	
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)
	2.3 Describe what an Intelligent Robot is and:	
1.2 Describe what are Ethics and Trustworthy Artificial Intelligence (AI), in Particular:	The candidate can	4 Starting Artificial Intelligence (AI): how to Build a Machine Learning (ML) Toolbox – Theory and Practice
The candidate can		
1.2.1 recall the general definition of Ethics.	2.3.1 relate intelligent robotics to intelligent agents.	4.1 Describe how we Learn from Data – Functionality, Software and Hardware
	3 Applying the Benefits of Artificial	The candidate can
1.2.2 recall that a Human Centric Ethical	Intelligence (AI) – Challenges and Risks	
Purpose respects fundamental rights, principles and values.	3.1 Describe how Sustainability Relates to	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.	(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	The candidate can	4.1.4 describe typical types of Machine Learning (ML) Algorithms.
Seventeen Sustainability Goals	3.2.1 list advantages of machine and human and machine systems.	4.1.5 describe the typical methods of visualizing data.
1.4 Describe how Artificial Intelligence (AI) is Part of 'Universal Design,' and 'The Fourth Industrial Revolution'	3.3 Describe the Challenges of Artificial Intelligence (AI), and:	4.2 Recall which Typical, Narrow Artificial Intelligence (AI) Capability is Useful in
1.5 Understand that Machine Learning (ML) is a Significant Contribution to the Growth of Artificial Intelligence (AI)	The candidate can	Machine Learning (ML) and Artificial Intelligence (AI) Agents' Functionality
J . ,	3.3.1 give examples of general ethical	5 The Management, Roles and
The candidate can	challenges Artificial Intelligence (AI) raises.	Responsibilities of Humans and Machines
	3.3.2 give general examples of the limitations	5.1 Demonstrate an Understanding that

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 Head Office 01189 123456 / Northern Office 0113 242 5931 info@globalknowledge.co.uk

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