

Artificial Intelligence Foundation + Exam

Durée: 2 Jours Réf de cours: AIF

Résumé:

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.

Public visé:

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

Objectifs pédagogiques:

- 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

Pré-requis:

No specific prior knowledge is required.

Test et 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
- English

Contenu:

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

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.		

Autres moyens pédagogiques et de suivi:

- Compétence du formateur : Les experts qui animent la formation sont des spécialistes des matières abordées et ont au minimum cinq ans d'expérience d'animation. Nos équipes ont validé à la fois leurs connaissances techniques (certifications le cas échéant) ainsi que leur compétence pédagogique.
- Suivi d'exécution : Une feuille d'émargement par demi-journée de présence est signée par tous les participants et le formateur.
- En fin de formation, le participant est invité à s'auto-évaluer sur l'atteinte des objectifs énoncés, et à répondre à un questionnaire de satisfaction qui sera ensuite étudié par nos équipes pédagogiques en vue de maintenir et d'améliorer la qualité de nos prestations.

Délais d'inscription :

- Vous pouvez vous inscrire sur l'une de nos sessions planifiées en inter-entreprises jusqu'à 5 jours ouvrés avant le début de la formation sous réserve de disponibilité de places et de labs le cas échéant.
- Votre place sera confirmée à la réception d'un devis ou ""booking form"" signé. Vous recevrez ensuite la convocation et les modalités d'accès en présentiel ou distanciel.
- Attention, si cette formation est éligible au Compte Personnel de Formation, vous devrez respecter un délai minimum et non négociable fixé à 11 jours ouvrés avant le début de la session pour vous inscrire via moncompteformation.gouv.fr.

Accueil des bénéficiaires :

- En cas de handicap : plus d'info sur globalknowledge.fr/handicap
- Le Règlement intérieur est disponible sur globalknowledge.fr/reglement