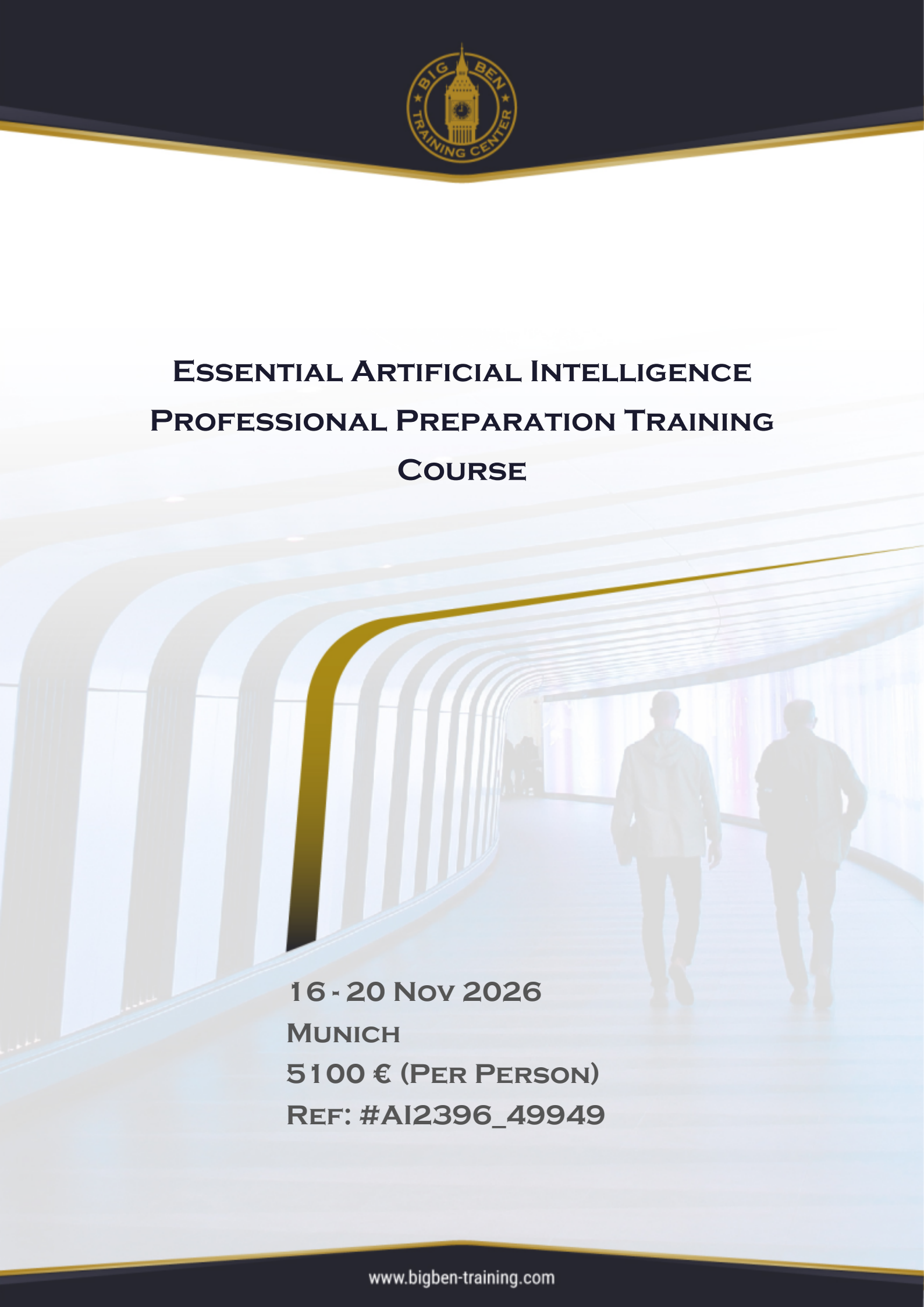
Essential Artificial Intelligence Professional Preparation Training Course



16 - 20 Nov 2026

Munich

5100 € (Per Person)

Ref: #AI2396_49949

Course Introduction / Overview:

This training course is designed to equip professionals with the foundational knowledge and practical skills needed to prepare for an artificial intelligence professional certificate. The demand for certified AI talent is growing rapidly, and this program provides a comprehensive and structured path to mastering the core concepts. We go beyond a simple review of topics and focus on the practical application of AI, giving participants the confidence to tackle real-world problems. Drawing on foundational concepts from academics like Stuart Russell and Peter Norvig from their classic book "Artificial Intelligence: A Modern Approach," the curriculum covers everything from machine learning and deep learning to natural language processing and computer vision. Participants will learn how to approach problem-solving with AI, evaluate models, and understand the ethical implications of their work. BIG BEN Training Center has designed this course to be highly interactive, with a strong emphasis on hands-on practice. It includes case studies and mock exams that prepare participants for the rigors of certification tests. This course is a vital resource for anyone serious about advancing their career in AI and achieving professional recognition.

Target Audience / This training course is suitable for:

- Aspiring AI and machine learning engineers.
- Data scientists.
- IT professionals and software developers.
- Business analysts.
- Technical project managers.
- University students and recent graduates.
- Professionals seeking a career change into AI.

Target Sectors and Industries:

- Technology and software.
- Financial services.
- Healthcare.
- Retail and e-commerce.
- Telecommunications.
- Government and public sector.
- Research and development.

Target Organizations Departments:

- Research and development.
- Data science and analytics.
- Product development.
- Information technology.
- Business intelligence.
- Operations.
- Compliance and risk management.

Course Offerings:

By the end of this course, the participants will have able to:

- Master the fundamental concepts of machine learning and deep learning.
- Understand the principles of natural language processing and computer vision.
- Prepare effectively for a professional AI certification exam.
- Analyze and solve complex problems using AI methodologies.
- Use key libraries and frameworks for AI development.
- Evaluate the performance of different AI models.
- Apply ethical guidelines to the development and use of AI.

Course Methodology:

The training course at BIG BEN Training Center is built on a practical, exam-focused methodology that is designed to maximize learning and retention. We believe that the best way to prepare for a professional certification is through a combination of theoretical knowledge and hands-on practice. The program uses interactive lectures to explain core concepts and then immediately reinforces them with practical exercises and coding challenges. Participants will work on a series of projects that mimic the type of problems found on professional exams. The course also includes regular quizzes and mock exams to track progress and identify areas for improvement. Our instructors provide personalized feedback and guidance, ensuring each participant has the support they need to succeed. This immersive, results-oriented approach ensures that participants not only pass their certification exams but also gain a deep and practical understanding of AI that will benefit their careers for years to come.

Course Agenda (Course Units):

Unit One: Foundations of Artificial Intelligence

- Introduction to AI concepts and history.
- The different types of AI.
- Machine learning fundamentals.
- Data preprocessing and feature engineering.
- Understanding common algorithms.
- Ethical and social implications.
- Preparing a dataset for a practical project.

Unit Two: Machine Learning Techniques

- Supervised and unsupervised learning.
- Regression analysis for prediction.
- Classification models.
- Model evaluation metrics.
- Overfitting and underfitting.
- Ensemble methods.
- Practical project on a classification problem.

Unit Three: Deep Learning and Neural Networks

- Introduction to deep learning.
- The structure of neural networks.
- Building a neural network with a deep learning framework.
- Training and optimizing deep models.
- Convolutional Neural Networks (CNNs).
- Recurrent Neural Networks (RNNs).
- Practical project on a deep learning problem.

Unit Four: Natural Language Processing and Computer Vision

- Introduction to Natural Language Processing (NLP).
- Text preprocessing and tokenization.
- Building a text classification model.
- Introduction to Computer Vision.
- Image classification and object detection.
- Transfer learning.
- Practical project on an NLP or computer vision problem.

Unit Five: The AI Professional's Toolkit and Exam Prep

- Common AI libraries and tools.
- Data management and pipelines.
- AI security and privacy.
- Best practices for model deployment.
- Mock exam and practice questions.
- Review of key concepts.
- Final Q&A and exam strategy session.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

Beyond the technical skills, what are the most crucial non-technical competencies, such as communication and ethical judgment, that an AI professional must possess to succeed in the field?

What unique qualities does this course offer compared to other courses?

This training course is designed to provide comprehensive and focused preparation for a professional AI certification, making it a powerful alternative to more general AI programs. While many courses give a high-level overview, this curriculum is tailored to the specific knowledge and skills required to pass a certification exam. It distinguishes itself by its rigorous structure, which includes mock exams, practice questions, and a detailed review of all core topics. This is an indispensable advantage for anyone serious about achieving a professional credential. The program also emphasizes practical application, ensuring participants not only memorize concepts but also understand how to use them in real-world scenarios. We believe this blend of academic rigor and practical focus is what sets BIG BEN Training Center apart and makes this program an essential resource for aspiring AI professionals.