AI, Robotics, and the Future of Work Training Course

Professional Development Training Course Outline

Category	Political Science and International Relations	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

The global workforce is at a critical juncture, facing unprecedented transformation driven by the rapid convergence of **Artificial Intelligence (AI)** and **Robotics**. This paradigm shift, often referred to as the **Fourth Industrial Revolution**, is fundamentally reshaping job roles, skills requirements, and organizational structures. This comprehensive training course is designed to equip professionals with the essential knowledge and practical skills needed to navigate this dynamic landscape, transforming potential disruption into a strategic advantage. It provides a holistic understanding of how these **emerging technologies** are not just automating tasks but also **augmenting human capabilities** and creating new opportunities for **innovation**, **productivity**, and **growth**.

AI, Robotics, and the Future of Work Training Course focuses on a forward-looking, **human-centric approach** to **AI-driven automation**. It moves beyond the fear of job displacement to empower learners with the **strategic mindset** required to **collaborate with intelligent systems**. Participants will explore the practical applications of AI and robotics across various industries, from **industrial automation** and **logistics** to **customer service** and **healthcare**. Through a blend of theoretical frameworks and hands-on exercises, the training will enable individuals and organizations to develop and implement **responsible AI strategies**, ensuring a smooth transition into the **future of work**.

Programme Curriculum

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Course Duration

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Course Objectives

1. Grasp the core concepts of AI, machine learning, and robotics, and their historical evolution.
2. Evaluate the macroeconomic effects of **AI-driven automation** on global and local job markets.
3. Anticipate how specific roles and industries will be augmented or reshaped by **intelligent automation** and **robotics**.
4. Gain the ability to speak fluently about key AI concepts and their practical applications in business contexts.
5. Learn to design and manage workflows that effectively integrate human and robotic capabilities for optimal performance.
6. Create actionable strategies for implementing **AI and robotics solutions** within your organization.
7. Analyze the ethical challenges, including **algorithmic bias**, **data privacy**, and **job displacement**.
8. Assess the business value of new technologies like **Generative AI**, **computer vision**, and **autonomous systems**.
9. Use AI-powered analytics and data insights to make more informed and strategic business decisions.
10. Foster an organizational environment that embraces **technological change** and continuous learning.
11. Use simulation tools and low-code platforms to experiment with AI and robotic applications.
12. Learn to identify and address the operational, security, and ethical risks associated with **AI and robotics adoption**.
13. Gain an understanding of the latest **AI trends**, **research breakthroughs**, and **future directions** in the field.

Target Audience

1. Business Leaders & Executives.
2. HR & L&D Professionals
3. Project & Program Managers.
4. Technology Consultants
5. Entrepreneurs & Innovators
6. Policy Makers & Government Officials.
7. Educators & Academics

8. Future of Work Strategists

Course Outline

- **Module 1: The AI & Robotics Revolution**
    - Introduction: The Fourth Industrial Revolution and the rise of AI.
- Core Concepts: Differentiating AI, machine learning, deep learning, and robotics.
- AI's Impact on Work: Analyzing job augmentation vs. job displacement.
- Human-Centric AI: The importance of human oversight and collaboration.
- **Case Study: Boston Dynamics** and the evolution of humanoid robots.
- **Module 2: Key AI Technologies & Applications**
    - Generative AI: How large language models (LLMs) are changing creative and professional tasks.
- Computer Vision: Applications in quality control, surveillance, and autonomous vehicles.
- Natural Language Processing (NLP): Revolutionizing customer service and data analysis.
- Robotic Process Automation (RPA): Automating repetitive, rule-based tasks.
- **Case Study: Amazon's** use of AI-powered robots in logistics and warehouse management.
- **Module 3: The Future of Job Roles & Skills**
    - New Roles: Exploring emerging jobs like AI Trainer, Robot Coordinator, and Automation Specialist.
- Reskilling & Upskilling: Identifying and developing essential skills for the AI era.
- Soft Skills in Demand: The growing importance of critical thinking, creativity, and emotional intelligence.
- Augmented Intelligence: Using AI as a tool to enhance human performance and decision-making.
- **Case Study: IBM Watson** in healthcare for augmented diagnostics and patient care.
- **Module 4: Implementing AI & Robotics in Business**
    - Strategic Planning: Creating an AI adoption roadmap.
- Pilot Programs: Designing and executing small-scale AI and robotics projects.
- Change Management: Communicating the vision and managing employee transition.
- Measuring ROI: Evaluating the economic and operational impact of automation.
- **Case Study: Tesco's** use of RPA to automate financial processes and improve efficiency.
- **Module 5: Robotics in Practice**
    - Types of Robots: Industrial robots, cobots, and service robots.
- Robot Kinematics: Understanding how robots move and interact with their environment
- Human-Robot Interaction (HRI): Designing intuitive and safe collaborative workspaces.
- Robot Operating System (ROS): An introduction to the software framework for robot development.
- **Case Study: ABB's** YuMi collaborative robot in electronics manufacturing.
- **Module 6: The Ethics of Automation**
    - Algorithmic Bias: Understanding and mitigating bias in AI systems.
- Data Privacy & Security: Protecting sensitive information in an automated world.
- Ethical AI Frameworks: Developing a responsible AI governance policy.
- Societal Impact: Addressing the broader implications of automation on society.
- **Case Study:** The ethical dilemma of **autonomous vehicles** and accident scenarios.
- **Module 7: The Hybrid Workforce**

    - AI-Human Teams: Strategies for creating effective collaborative teams.
- Task Reassignment: Redefining roles and responsibilities in a hybrid workplace.
- Performance Management: Evaluating and incentivizing performance in an automated environment.
- Employee Training: A continuous learning approach to skill development.
- **Case Study:** How **Coca-Cola** used AI-powered chatbots to improve internal HR support.
- **Module 8: Looking Ahead: The Future of AI**

    - Emerging Trends: Exploring new frontiers like swarm robotics and quantum computing.
- AI and Sustainability: The role of AI in addressing climate change and resource management.
- The Future of Work-Life Balance: How automation can lead to more meaningful work.
- Future Scenarios: Debating the potential utopias and dystopias of a highly automated world.
- **Case Study: Hanson Robotics** and the development of social robots like Sophia.

Training Methodology

This course employs a **blended learning approach** that combines interactive lectures, practical workshops, and collaborative discussions. The methodology is designed to be highly engaging and hands-on, ensuring a deep understanding of complex concepts.

- Interactive Lectures.
- Hands-on Workshops
- Case Study Analysis.
- Group Discussions & Debates.
- Capstone Project
- Guest Speaker Series.
- Mentorship & Peer Feedback

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

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