



Course:

Understand the Future: AI, Automation and You: The Role of AI and Automation in Modern Industries

Course Description

In an era where artificial intelligence (AI) and automation are not just buzzwords but realities reshaping the global landscape, staying ahead of the curve is imperative for professionals across industries. But how does one navigate these transformative times? How can you ensure that your career remains relevant, vibrant, and poised for continuous growth amidst rapid technological advancements? This course aims to demystify AI and automation while empowering you with the knowledge and skills to thrive in the future of work.

The relevance of this course topic in today's world cannot be overstated. As industries evolve at an unprecedented pace, the demand for professionals who can adeptly navigate and harness the power of AI and automation continues to surge. Whether you are looking to upskill, transition into AI-driven roles, or innovate within your current industry, this course is designed to position you at the forefront of this dynamic shift.

With this course, you will explore significant trends in AI and automation, understanding how these technologies impact job structures and spawn new employment opportunities. Discover transformation stories across sectors, witnessing firsthand how AI-driven strategies have revolutionized logistics, healthcare, manufacturing, and creative industries, among others. It penetrates the economic implications of AI and automation, tackling issues of inequality, global labor markets, and the gig economy.

Whether it's developing AI-driven career tools, navigating legal and ethical challenges, or integrating AI for sustainable practices, you will embark on projects that not only enhance your learning experience but also enrich your professional portfolio.

For those new to the field, this course ensures a gentle yet comprehensive introduction to complex concepts. For more advanced learners, this course offers deep dives into specialized topics, challenging you to push the boundaries of what you thought possible.

In a world where the only constant is change, this course serves as your compass, equipping you with the knowledge, skills, and mindset required to not just survive but thrive. Whether it's through initiating AI-driven projects, adapting to new career roles that AI and automation bring, or leading with ethical standards in the implementation of these technologies, you will emerge from this course not just future-ready, but future-proof.

Take the first step towards mastering the future of work in an AI and automation-driven world. With this comprehensive course, not only will you understand the monumental shift occurring across industries, but you will also be empowered to lead it.

Learning objectives

- Identify key roles of AI in modern industries.
- Recall major historical tech innovations in the workforce.
- Analyze trends in AI and automation adoption.
- Evaluate AI's impact on job structures.
- Create strategies for adapting to AI-driven changes.
- Compare AI transformations in logistics vs healthcare.
- Discuss AI's influence on creative industries.
- Examine case studies of successful AI implementations.
- Understand AI's effects on global economic structures.
- Assess AI-driven inequality in employment.



- Apply insights on AI to global labor markets.
- Plan for lifelong learning in an AI era.
- Design a personal AI-driven career plan.
- Predict future job roles influenced by AI.
- Analyze psychological impacts of working with AI.
- Formulate strategies for ethical AI leadership.
- Utilize AI for enhancing training and development.
- Manage work-life balance in an AI-integrated world.
- Implement AI solutions for customer service improvements.
- Explore AI's role in supporting mental well-being at work.

Topics covered

The course is split into the following sections:

Section 1: Introduction to AI and Automation in the Workforce

- The Role of AI and Automation in Modern Industries
- Historical Perspectives on Technological Changes in the Workforce
- Identifying Major Trends in AI and Automation
- Impact of AI on Traditional Job Structures
- Emerging Job Roles Due to AI and Automation

Section 2: The Evolution of Industries with AI and Automation

- Transformation in the Logistics and Supply Chain Sector
- Revolution in Healthcare through AI and Automation
- Disruptions and Opportunities in the Creative Industries
- AI's Influence on Manufacturing and Production
- Case Studies: Successful Industry Transformations

Section 3: Understanding Economic Impacts of AI

- AI, Automation, and Economic Structures: An Overview
- Inequality and Employment: The Role of AI
- How AI is Shaping Global Labor Markets
- The Gig Economy and Freelance Work in an AI World
- Economic Case Studies: From Disruption to Opportunity

Section 4: Strategies for Adaptability and Lifelong Learning

- Developing a Mindset for Adaptive Change
- Strategies for Lifelong Learning in the AI Era
- Skills and Competencies for the Future Workforce
- Role of Continuous Education in Career Advancement
- Case Studies on Adaptability in Dynamic Industries

Section 5: AI-Driven Career Planning

- Introduction to AI-Driven Career Tools
- Assessing Skills and Identifying Career Opportunities with AI
- Navigating Career Transitions using AI
- Building a Personal Brand in the Age of Automation
- Creating Your Own AI-Driven Career Plan



Section 6: Anticipating Change in the Workplace

- Recognizing Patterns and Predicting Future Trends in Work
- Analyzing the Impact of Technological Change on Your Industry
- Embracing Uncertainty and Preparing for the Unknown
- Strategies for Anticipating and Adapting to Change
- Real-World Examples of Anticipated Industry Changes

Section 7: The Psychology of Working with AI

- Understanding Human-AI Collaboration in Workspaces
- Managing AI Anxiety and Embracing Technological Partnerships
- Ethical Considerations in AI Deployment
- The Human Element: AI as Assistive, Not Disruptive
- Psychological Impacts: Case Studies in Healthcare and Creative Sectors

Section 8: AI and the Global Workforce

- Globalization and Work: The Role of AI and Automation
- AI's Impact on Developing Economies and Outsourcing Trends
- The Digital Divide and Access to Future Opportunities
- Case Studies: Bridging the Gap with AI Education and Policy
- Creating Inclusive Work Environments with AI

Section 9: AI, Automation, and Ethical Leadership

- The Responsibility of Leaders in an AI-Driven Workplace
- Fostering Ethical Practices in AI Implementation
- The Role of Transparency and Accountability
- Case Studies in Ethical AI Deployment
- Building Trust in AI Systems among Employees

Section 10: The Future of Job Roles and Descriptions

- Redefining Job Roles in the Context of AI and Automation
- How to Prepare for Jobs That Don't Yet Exist
- Soft Skills in a Hard Tech World
- Case Studies: Job Evolution in Real-Time
- Guidelines for Writing AI-Adaptive Job Descriptions

Section 11: Innovations in Training and Development with AI

- AI in Professional Development and Continuous Learning
- Using AI Tools for Skill Gap Analysis
- Customized Learning Paths Enabled by AI
- The Role of Virtual and Augmented Reality in Training
- Success Stories: Transforming Talent with AI

Section 12: Personal Adaptability to Technological Change

- Self-assessment for Career Resilience
- Emotional Intelligence in an Automated World
- Negotiating Life-work Balance in an AI-Powered Economy
- Personal Case Studies: Navigating Career Changes Successfully
- Creating a Personal Action Plan for Adaptability

Section 13: The Impact of AI on Work-Life Balance

- Understanding the Changing Nature of Work Hours and Locations
- AI and the Increased Flexibility in Work Arrangements
- The Challenge of Remaining “Human” in a Digital Work Environment
- Positive and Negative Impacts on Mental Health
- Life Balance Case Studies in Various Industries

Section 14: Networking and Collaboration in an AI-Influenced World

- Building Professional Networks in an Era of Automation
- AI Platforms for Enhancing Collaboration Among Remote Teams
- The Importance of Cross-disciplinary Collaboration
- Case Studies: Collaborative Projects Enhanced by AI
- Tips for Effective Networking in the Digital Age

Section 15: Consumer Service and AI Integration

- Revolutionizing Customer Service with AI and Automation
- Chatbots, Virtual Assistants, and Personalized Service
- The Human Touch in AI-driven Customer Service
- Real-life Applications and Success Stories
- Balancing Efficiency and Personalization in Service Delivery

Section 16: Creativity and AI

- Demystifying the Role of AI in Creative Processes
- AI and Automation in Design, Art, and Media
- Enhancing Creative Work with AI Tools
- Case Studies: AI as a Collaborator in Creativity
- Overcoming Creative Blockades with AI

Section 17: Navigating Legal and Regulatory Challenges

- Understanding the Legal Landscape of AI in the Workplace
- Data Privacy and Security in an AI-Driven Environment
- AI Policy and Regulation: Current State and Future Directions
- Case Studies: Navigating Legal Challenges with AI
- Preparing for Compliance in the Age of Automation

Section 18: The Role of AI in Sustainable Practices

- AI's Contribution to Sustainable Development Goals
- Automation for Environmental Responsibility
- Case Studies: AI Solutions for Sustainability in Business
- Developing a Sustainability Mindset in the AI Age
- Balancing Economic Growth and Environmental Stewardship with AI

Section 19: The Intersection of AI and Mental Health in the Workplace

- AI for Monitoring and Promoting Mental Well-being
- Stress Management Tools Powered by AI
- The Impact of AI on Employee Assistance Programs
- Real-world Applications and Case Studies
- Building a Supportive Work Environment with AI



Section 20: Creating Your Personal Action Plan

- Reflecting on Personal Goals and Aspirations in an AI World
- Identifying Skills and Competencies for Future-proofing Your Career
- Strategies for Implementing Lifelong Learning Plans
- Developing a Comprehensive Personal Action Plan
- Final Thoughts: Thriving in the Future of Work with AI and Automation

Course duration

This course may take up to 5 hours to be completed. However, actual study time differs as each learner uses their own training pace.

Course pre-requisites

There are no requirements or pre-requisites for this course, but the items listed below are a guide to useful background knowledge which will increase the value and benefits of this course:

- Basic understanding of how computers and the internet function.
- Familiarity with concepts of artificial intelligence and automation.
- Interest in exploring how technological advancements impact various industries and job roles.

The course is addressed to:

- Human Resources professionals looking to integrate AI technologies for talent management and recruitment.
- Mid-career professionals seeking to adapt to AI-driven changes within their industry, aiming for skill enhancement.
- Business leaders and managers aiming to understand the impacts of AI and automation on workforce planning and strategy.
- Technology enthusiasts and students focused on pursuing careers in AI and robotics, seeking insights into emerging job roles.
- Policy makers and economic planners analyzing the socioeconomic effects of AI on global labor markets.
- Educators and trainers designing courses on workforce development and career readiness in an AI-influenced economy.

Training Method

The course is offered fully online using a self-paced approach. The learning units consist of a video. Learners may start, stop and resume their training at any time.

At the end of the course, participants take a Quiz to complete the course and earn a Certificate of Completion once the quiz has been passed successfully.

Registration and Access

To register to this course, click on the [Take this course](#) button to pay online and receive your access instantly. If you are purchasing this course on behalf of others, please be advised that you will need to create or use their personal profile before finalizing your payment.

Access to the course is valid for 90 days.

If you wish to receive an invoice instead of paying online, please [Contact us by email](#). Talk to us for our special Corporate Group rates.



Instructor

Peter Alkema is a highly accomplished Business and IT leader specialising in large scale technology delivery and digital transformation strategy implementation for leading financial services business. A proven record in driving the full development lifecycle at all levels across large and complex banking enterprises ensures a deep understanding of the challenges, opportunities and pathways to success for digital transformation in banking. By utilising innovation, awareness, and knowledge, able to drive high-level business strategy formulation, product and platform development, and change management.

Teaching 500k online students about Data Science, Machine Learning, Digital Transformation, Business, Academic, Self Development and Technology skills.

Business & IT leader specialising in large scale technology delivery, digital transformation and Agile software engineering (PhD). 24 years in the banking industry; 10 years consulting (Accenture) and 14 years working in banking (Absa & FNB).

Won the ITWeb Gartner Visionary CIO Of The Year in 2016 & featured on CNBC Africa. Founded and led the largest banking hackathon in South Africa which was featured on Harvard Business Review.

Professional skills: Digital Transformation, Technology, Agile, ERP, Programme Management, Innovation, Thought Leadership, Communication, Process Engineering, Online Training.