HDTC Training Center

Provide

Technical proposal of the Training program

AI for Project Management

Introduction

As organizations face increasing complexity in project environments, the integration of Artificial Intelligence (AI) has become essential for achieving efficiency, agility, and data-driven decision-making. Modern project management is no longer limited to traditional tools and methodologies; it now requires intelligent systems that can automate repetitive tasks, provide predictive insights, and enhance collaboration.

This program introduces participants to the practical application of AI and AI agents in project management. It bridges the gap between traditional project practices and AI-powered workflows, enabling professionals to streamline operations, reduce administrative burden, and focus on high-value strategic activities.

The program emphasizes governance, ethical considerations, and responsible AI adoption while equipping participants with actionable skills to design and implement AI-driven workflows in real-world projects

Program Objectives:

General Objective:

To enable participants to effectively integrate AI tools and AI agents into project management processes to improve efficiency, decision-making, and overall project performance.

Key Learning Objectives:

By the end of this program, participants will be able to:

- Understand the role of AI in modern project management environments
- Identify project processes suitable for AI automation
- Apply AI tools for project planning, tracking, and reporting
- Design and implement AI-driven workflows using AI agents
- Improve project visibility and performance using AI-generated insights
- Recognize ethical, governance, and risk considerations in AI adoption
- Enhance collaboration and productivity through intelligent automation.

Program Outlines:

★ Day 1: Introduction to AI in Project Management

- **Module 1: AI Fundamentals for Professionals**
  - What is AI, Machine Learning, and Generative AI
  - Types of AI applications in business
  - AI capabilities and limitations.

- **Module 2: AI in Modern Project Environments**
  - Evolution of project management
  - AI use cases in project lifecycle
  - AI vs traditional project tools
  - Role of AI in PMO transformation

- **Module 3: Opportunities and Challenges**
  - Benefits of AI adoption in projects
  - Common implementation challenges
  - Organizational readiness for AI

★ Day 2: AI Tools for Project Planning and Execution

- **Module 4: AI for Project Planning**
  - AI-assisted scope definition
  - Work Breakdown Structure (WBS) generation
  - Scheduling with AI
  - Resource allocation optimization
- **Module 5: AI for Monitoring and Control**
  - Predictive analytics in projects
  - Risk identification using AI
  - Performance tracking with AI dashboards
  - AI-driven reporting and insights

Workshop

  - Hands-on use of AI tools for planning and reporting

★ Day 3: AI-Driven Workflows and Automation

- **Module 6: Process Automation in Projects**
  - Identifying automation opportunities
  - Mapping workflows for automation
  - AI vs RPA (Robotic Process Automation)
- **Module 7: Designing AI-Driven Workflows**
  - Workflow design principles
  - Integrating AI into project processes
  - End-to-end automation strategies
- **Workshop**
  - Designing an AI-driven workflow for a project scenario

★ Day 4: AI Agents and Intelligent Systems

- **Module 8: Introduction to AI Agents**
  - What are AI agents?
  - Types of AI agents (task agents, decision agents)
  - Use cases in project management
- **Module 9: Building AI Agent-Based Workflows**
  - Agent-based task management
  - Automating communication and reporting
  - Integrating agents with project tools
- **Workshop**
  - Designing AI agents for project tasks
  - Creating simple agent-based workflows

★ Day 5: Governance, Ethics, and Implementation

- **Module 10: AI Governance and Risk Management**
  - Data privacy and security
  - AI risks in project environments
  - Governance frameworks for AI adoption
- **Module 11: Ethical Considerations**
  - Bias in AI systems
  - Transparency and accountability
  - Responsible AI practices
- **Module 12: Implementation Strategy**
  - Building an AI adoption roadmap
  - Change management for AI
  - Measuring ROI of AI in projects
- **Final Workshop**
  - Developing an AI-enabled project plan
  - Group presentations and feedback.

Program Outputs:

Upon successful completion, participants will be able to:

- Integrate AI into project management processes
- Design AI-driven workflows using AI agents
- Use AI tools for planning, tracking, and reporting
- Improve project performance using data insights
- Address ethical and governance challenges in AI
- Lead AI adoption initiatives within their organizations

Target Audience:

- ✓ Project and Program Managers
- ✓ PMO Professionals and Coordinators
- ✓ Business Analysts and Operations Managers
- ✓ IT and Digital Transformation Teams
- ✓ Team Leaders in Project Delivery
- ✓ Professionals seeking to enhance productivity through AI

Training Methodology:

- ✓ Interactive lectures
- ✓ Hands-on workshops using AI tools
- ✓ Real-life case studies
- ✓ Group discussions and activities
- ✓ Simulations and project scenarios
- ✓ Guided practical exercises.

Targeted Competencies:

Technical Competencies

- AI fundamentals in project management
- AI tools utilization
- Workflow automation
- Data-driven decision-making

Behavioral Competencies

- Strategic thinking
- Innovation mindset
- Problem-solving
- Adaptability to digital transformation

Professional Competencies

- AI governance awareness
- Ethical decision-making
- Change management

Benefits / value proposition:

For the Organization:

- Increased project efficiency and productivity
- Reduced administrative workload
- Improved decision-making through data insights
- Enhanced project visibility and control
- Faster project delivery cycles
- Strengthened digital transformation capabilities

For the Participants:

- Practical skills in AI application within projects
- Ability to automate repetitive tasks
- Improved analytical and decision-making skills
- Enhanced professional competitiveness
- Readiness for AI-driven work environments
- Increased productivity and performance