COURSE SYLLABUS

AI for Project Management

A practical overview of how artificial intelligence can be utilized to positively impact project management success by demystifying artificial intelligence and providing practical steps for incorporating AI into project processes.

Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://sdfm.graduateschool.edu/courses/using-ai-for-project-management



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Course Outline

Module 1: AI 101 for Project Managers

- Define artificial intelligence and distinguish narrow vs. general AI
- Introduce core concepts: natural language processing (NLP), machine learning (ML), and generative AI
- Debunk common myths and set realistic expectations for AI capabilities and limits

Module 2: Why AI for Project Management

- Examine how AI is changing the modern workplace and project environments
- Map AI-enabled skills to PMI's Talent Triangle® (Ways of Working, Power Skills, Business Acumen)
- Identify future-readiness steps for managing projects alongside AI tools

Module 3: AI Applications for Project Management — Planning

- Use AI to clarify project charters, scope statements, and WBS drafts
- Leverage AI for requirements gathering, stakeholder analysis, and risk identification prompts
- Apply AI-assisted estimation and scenario exploration to inform baselines

Module 4: AI Applications for Project Management — Scheduling, Risk, & Communications

- Generate schedule drafts, dependencies, and what-if analyses with AI assistants
- Strengthen risk analysis with pattern detection, probability cues, and mitigation optioning
- Enhance reporting and stakeholder communications with AI-written summaries and visuals

Module 5: Ethical, Legal, and Practical Considerations

- Address bias, privacy, transparency, and data provenance in federal contexts
- Define appropriate human-in-the-loop controls and oversight
- Align usage with federal AI guidance, policies, and compliance requirements

Module 6: Preparing for AI Integration

- Create a strategy for selecting, piloting, and scaling AI use cases
- Develop a communication plan for stakeholders, leadership, and teams

- Incorporate change management, training, and governance into rollout plans