AI in Construction: Prompt, Create, Build Responsibly
Course Duration: 8 Hours (1 Day)

Overview

The AI in Construction: Prompt, Create, Build Responsibly course is designed to equip learners with the skills to leverage generative AI technologies effectively in the construction industry. This course encompasses a range of modules that delve into the intricacies of AI, with a strong emphasis on Prompting techniques and their practical applications. Module 1 introduces the significance of Generative AI and the art of crafting effective prompts to generate useful outputs. It covers the use of prompts in common software like Excel and PowerPoint, enhancing productivity and creativity. Module 2 focuses on Text prompting to streamline project documentation, knowledge sharing, and client communication, while also fostering innovation. In Module 3, learners explore Image prompting to create visual aids, blueprints, and site maps that are vital in construction planning and communication. Finally, Module 4 addresses the ethical dimensions, emphasizing Responsible prompting to ensure clarity, ethical compliance, data privacy, and the importance of human oversight in AI applications. Through this comprehensive course, learners will become proficient in integrating AI into construction workflows, leading to more efficient, innovative, and responsible project outcomes.

Audience Profile

The "AI in Construction: Prompt, Create, Build Responsibly" course equips construction professionals with AI-driven techniques to enhance efficiency and promote responsible building practices.

- This course is ideal for:
- Construction Project Managers
- Site Engineers and Supervisors
- Architects and Design Professionals
- Civil Engineers
- Construction Safety Officers
- Construction Equipment Managers
- Building Information Modeling (BIM) Managers
- Construction IT Specialists
- Technical Construction Consultants
- Construction Quality Assurance Personnel
- Construction Industry Trainers and Educators
- Construction Research and Development Professionals
- Innovation Managers within Construction Firms
- Construction Compliance and Regulatory Officers
- Client Relations Managers in Construction Companies

Course Syllabus

Chapter 01: Generative AI & Prompting Techniques (20 mins)

- Why is Generative AI important?
- Importance of Prompting & Techniques
- Prompts for Excel and PowerPoint
- Quiz 01: Prompting Techniques

Chapter 02: Text Prompting for the Construction Industry

- Project Planning and Documentation
- Training and Knowledge Sharing
- Troubleshooting and FAQs
- Material and Equipment Research
- Language Translation
- Health and Safety Guidelines
- Client Communication
- Innovation and Idea Generation
- Quiz 02: Text Prompting

Chapter 03: Image Prompting for the Construction Industry

- Visual Aids for Presentations
- Blueprints and Design Drafting
- Safety Instructions and Infographics
- Equipment and Machinery Diagrams
- Site Maps and Layouts
- Quiz 03: Image Prompting

Chapter 04: Responsible Prompting for the Construction Industry

- Clarity in Instructions
- Ethical Considerations
- Verification and Fact-Checking
- Data Privacy and Confidentiality
- Adherence to Policies and Regulations
- Human Oversight
- Quiz 04: Responsible Prompting