



# PMT003

## AI DRIVEN ROAD MANAGEMENT

- Learn how AI and computer vision transform road inspection and asset management
- Understand predictive maintenance and resource optimisation with AI
- Explore real-world case studies of AI in transportation systems
- Gain hands-on experience with data processing, model validation, and backend systems
- Address ethical, governance, and non-functional requirements in AI adoption
- Craft specifications and frameworks for AI-driven road management solutions



### Date

TBC (2 days )



### Time

09.00 AM - 5.00 PM



### Venue

ZOOM MEETING



### Method

REMOTE ONLINE TRAINING



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## Course Overview

This course equips transportation professionals with the knowledge and skills to transform road asset management using artificial intelligence (AI) and computer vision (CV). Participants will explore how AI-driven systems enable predictive maintenance, optimize resource allocation, and support data-driven decisions for road networks. Through a blend of lectures, case studies, and hands-on labs, attendees will learn to define functional and non-functional requirements, select appropriate AI models, and craft specifications for AI-based road management solutions. The course is vendor-neutral, focusing on universal principles and technologies applicable to any DoT, ensuring participants can envision and implement AI solutions tailored to their organization's needs.

## Course Objectives

- Understand core AI and CV concepts for road inspection and asset management.
- Identify the roles of data, human oversight, and technology in AI-driven systems.
- Define essential functional and non-functional requirements for AI road management solutions.
- Establish meaningful performance metrics and data requirements to ensure system reliability.
- Develop a specification framework to describe and procure an AI-driven road management plan.
- Evaluate AI solutions for fairness, robustness, and integration with existing DoT systems.

## Who Should Attend ?

This course is recommended for Project Managers, Architects, Developers, and Data Acquisition Specialists

## Methodology

- Lectures build core AI and computer vision knowledge
- Case studies show real transport applications
- Labs give practice with models and validation
- Discussions explore ethics and governance
- Simulations mirror road inspection challenges
- Feedback refines skills and insights



## Course Prerequisites

To get the most out of this course, participants should have foundational knowledge of project management, either through formal training Project Management Fundamentals or Project Management Professional [PMP] courses or relevant experience in a project management context.

# AI for Project Management Agenda

## Introduction and Core Concepts

Gain a foundation in AI and computer vision, focusing on how they apply to road inspection and asset management.

## Essential Technologies for AI Road Management

Explore the tools, platforms, and data sources that make AI-driven road management possible.

## Case Studies and Technology Applications

Review real-world examples of AI in road networks and learn how these solutions improve efficiency and safety.

## Backend Systems and Data Processing

Understand the role of backend infrastructure, data pipelines, and analytics in supporting AI solutions.

## Performance Requirements and Validation

- Learn how to set performance benchmarks, test system accuracy, and validate AI results against real-world conditions.



## Advanced Data Requirements and Governance

- Examine the types of data needed for AI systems and explore governance practices for security, privacy, and compliance.

## Non-Functional Requirements (NFRs)

Define reliability, scalability, and usability standards critical for sustainable AI road management solutions.

## Ensuring Fair and Reliable AI

Address issues of fairness, bias, and transparency to ensure trust and reliability in AI-driven systems.

## Crafting Specifications and Workshop

Participate in a guided workshop to develop a specification framework for procuring AI-based road management solutions.

## Course Summary

Recap key learnings and create a roadmap for applying AI in your own road management environment.





# Personal Information

Full Name

:

Birth of Date

:

Full Address

:

Nationality

:

City/Country

:

Gender

:

(Male/Female)

Email

:

Phone Number

:

## Registration Guidelines

### Step 1

Download the brochure from our website: <http://www.pimato.com>

### Step 2

Fill in the registration form and send it to our team via Email or WhatsApp.

Email: [karthigeyan.suderam@pimato.com](mailto:karthigeyan.suderam@pimato.com)

WhatsApp Contact: Karthigeyan: +6011-11311124

### Step 3

After receiving our email confirmation (including the proforma invoice and Pimato Training supporting documents), kindly email us the HRDCorp grant approval.

Note: No pre-payment is required for HRDCorp-registered companies.

### Step 4

For non-HRDCorp registered companies: Please proceed with payment directly to us and email the proof of payment.

### Step 5

Upon training completion, we will submit the claim to HRDCorp.

## PAYMENT

Kindly make payment to:

Bank : CIMB BANK BERHAD

Branch : KINRARA, 17 JALAN TK 1/11A, PLAZA KINRARA, 47190 PUCHONG, SELANGOR.

Account Name : PIMATO SDN BHD

Account Number: 86-0612273-2

Swiftcode : CTBBMYKL

Payable to: Pimato Sdn Bhd

Please email or WhatsApp us the payment proof together with the registration form.

Any cancellation within one (1) week before the event is non-refundable.

## CANCELLATION POLICY

Course fees are non-refundable once a reservation has been confirmed. No refund will be given for cancellations or withdrawals. Cancelled unpaid registration will also be liable for full payment of the course fees.

## REPLACEMENTS

Registrations are not interchangeable, but replacements are acceptable. Please notify us at least five (5) days prior to the event if you intend to send a replacement.

## RECORDING

Video and sound recording is strictly prohibited