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AI FOR REAL-TIME SAFETY MONITORING AND EMERGENCY DETECTION

Start Date:	23/02/2026	**End Date:**	27/02/2026
Categories:	Artificial Intelligence & En	**Venues:**	Madrid
Formats:	In Person	**Instructors:**	

OVERVIEW

This program focuses on applying AI to enhance safety in industrial operations by detecting anomalies, predicting emergencies, and enabling real-time monitoring using advanced sensors and machine vision systems.

OBJECTIVES

• Understand the role of AI in proactive safety management. • Utilize computer vision and sensor data for hazard detection. • Deploy real-time monitoring tools for worker and asset safety. • Predict equipment failure and human risk using ML. • Design integrated emergency response systems.

COURSE OUTLINE

• Safety Analytics and AI Fundamentals • Machine Vision for PPE and Behavior Monitoring • Real-Time Hazard Detection and Alerts • Predictive Models for Emergency Scenarios • Integration with Safety Management Systems

TARGET AUDIENCE

HSE professionals, safety engineers, digital transformation officers, and plant managers.

METHODOLOGY

Tool demonstrations, video analysis, real-time data feeds, and emergency response simulations.

CONCLUSION

Participants will gain practical experience applying AI to improve workplace safety and emergency response.

DAILY AGENDA

Day 1: AI in Safety Overview

AI applications in industrial safety systems.

Day 2: Computer Vision & Sensors

Visual monitoring, PPE detection, and integration.

Day 3: Hazard Prediction

Using ML to forecast and detect risk events.

Day 4: Real-Time Monitoring

Dashboards, alarms, and worker location systems.

Day 5: Emergency Systems

Crisis detection, alerts, and automatic response protocols.

For more information, please contact us:
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