Productivity Step-up for Logistics Industry Sector Programme
(Predictive Analysis with Artificial Intelligence)

Day 1 **(Online Class)**	**Diagnostics Lesson.** - Identify overall company performance and readiness to adopt technology. - To understand their strengths, weakness and potential improvement. Definition and Significance. i) Definition of predictive analysis in logistics with AI. ii) Importance of predictive analysis in optimizing logistics and supply chain operations. Key Applications. i) Demand forecasting and its impact on inventory management and production planning. ii) Route optimization for efficient transportation and delivery. iii) Inventory management to optimize stock levels and avoids stockouts. Benefits and Business Impact. i) Enhanced operational efficiency and cost reduction. ii) Improved customer satisfaction and on-time deliveries. iii) Competitive advantage through proactive decision-making.
Day 2 **(Online Class)**	**Process Analysis Lesson.** i) Analyze their key processes and understand their problem. ii) To help the companies determine the best solution and intervention. Data-collection and Pre-processing. i) Importance of collecting relevant and accurate data from various sources. ii) Data pre-processing techniques such as cleaning, normalization and engineering. Machine Learning Algorithms. i) Introduction to popular algorithms for predictive analysis, such as regression. ii) Selection of appropriate algorithms based on the specific logistics use case. Model Training and Evaluation. i) Training the predictive models using historical data. ii) Evaluating model performance through metrics like accuracy, precision, recall. iii) Techniques for model optimization and fine-tuning.

Day 3 **(Physical Class)**	**Intervention / Implementation Lesson.** - Introduces a solution through process intervention and the use of technology within the identified indicators (Cost, waste, time, capital, etc..). - Companies come out with a project report on solution proposed, either through digitalization using AI in Logistic.

Who eligible to join:

- Participant who work under any registered company in SSM.
- Applicable for SME companies related in logistics sector only.
- Participant must be able to create Project of Concept (POC) report.
- Willing to travel to our training centre.

Required hardware :

- We recommend the following specification for a laptop or PC that will be used for this training.

Microsoft Windows 8/10/11 (64- bit).
I3/ Ryzen 3 minimum CPU processor unit, i7/Ryzen 7 above recommended.
4GB RAM minimum, 8gb recommended.
2GB of available disk space available, 4GB recommended.
1920 x 1080 minimum screen resolution.

Training location :

-(T-Robot C09P) C-G-5, Block C, UPM-MTDC Technology Centre III, Universiti Putra Malaysia, 43300 Serdang, Selangor Darul Ehsan.
- Refreshments is provided.
- Only accommodation will not be provided.