PROJECT NOTIFICATION

Reference No.: 638

Date of Issue	19 June 2025
Project Code	25-CP-14-GE-TRC-A
Title	Training Course on Smart Manufacturing Specialists
Timing	8 September 2025–12 September 2025
Hosting Country(ies)	Republic of China
Venue City(ies)	Taichung
Modality	Face-to-face
Implementing Organization(s)	China Productivity Center
Participating Country(ies)	All Member Countries
Overseas Participants	19
Local Participants	6
Closing Date	23 July 2025
Remarks	Not Applicable

Objectives	Equip participants with skills to analyze existing production systems, identify smart solutions, and develop transformation roadmaps; and provide hands-on learning on the IoT and generative AI for process optimization, including fault diagnosis, sensor status queries, and automated manufacturing execution system report generation.
Rationale	As part of its commitment to advancing smart transformation, the APO established the Center of Excellence (COE) on Smart Manufacturing (SM) in Taichung under the CPC in 2019. Along with a series of relevant publications, the "Digital Kaizen Guidebook," published in 2024, further supports knowledge dissemination. To support the capacity building and growing demand for SM and productivity specialists, the APO continues to organize this course with the cooperation of the COE on SM. This also strengthens the APO COE on SM as a regional training provider on the subject.
Background	In 2023, the APO launched a training course to develop SM specialists to support SMEs in digital transformation in response to the growing demand for professionals with both productivity and digitalization expertise. In 2024, in response to feedback from the inaugural course, it included more hands-on IoT exercises to enhance practical understanding. Participants have since multiplied the knowledge in their home countries through local training programs, consultancy to industry, and establishing Industry 4.0 training and research centers to build national capacity. In response to rapid advances in AI, this year's course includes new content on generative AI applications in SM, use cases such as automated fault diagnosis, sensor data monitoring, and report generation. The course continues to evolve in line with emerging technologies, reinforcing the APO's commitment to developing future-ready manufacturing capabilities in its member economies.
Topics	SM technology overview; Analyzing production systems; Applications of the IoT and generative AI in manufacturing; User-centered digital transformation; and Smart transformation roadmap development.
Outcome	Strengthened reputation and higher visibility of the APO COE on SM, with enhanced understanding of SM technologies and implementation strategies in industry, and trained participants will promote SM in SMEs in member economies.
Qualifications	Manufacturing SME owners or managers, professionals in SME development agencies, or NPO staff involved in developing and promoting digital transformation plans for industry.

Please refer to the implementation procedures circulated with this document for further details.

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