PROJECT NOTIFICATION

Reference No.: 655

Date of Issue	14 July 2025
Project Code	25-CP-46-GE-TRC-A
Title	Training Course on Smart Building Solutions for Sustainable Productivity Outcomes
Timing	10 November 2025–14 November 2025
Hosting Country(ies)	Republic of China
Venue City(ies)	Taipei
Modality	Face-to-face
Implementing Organization(s)	China Productivity Center
Participating Country(ies)	All Member Countries
Overseas Participants	19
Local Participants	6
Closing Date	5 September 2025
Remarks	Not Applicable

Objectives	Enhance understanding of solutions for smart building management; gain knowledge on methodology to quantitatively measure and verify energy efficiency gains; and cultivate the skills for evaluating the broader environmental and financial benefits of smart building solutions.
Rationale	The UNEP 2023 Global Status Report for Buildings and Construction highlights that buildings account for about one-third of global energy demand and contribute almost the same share of carbon emissions. Adopting smart solutions in managing the energy, equipment, and workforce of buildings has positive implications for overall productivity, well-being, and environmental performance.
Background	Given the rapid rise in urbanization, with the United Nations Population Fund projecting that the global population living in cities will reach around 5billion by 2030, and the expanding role of the service sector, the building sector continues to grow, leading to increased energy demand and carbon footprints. Hence, there is a need to reduce the environmental impact of buildings while maintaining the comfort of occupants, leading to more economic output from energy consumption. By employing advanced technologies such as sensors, automation, and data analytics, smart building systems can intelligently monitor and control energy consumption for heating, cooling, and lighting, among other factors. This not only minimizes waste but also contributes to more sustainable, eco-friendly operations, aligning with the core principles of Green Productivity (GP). This training course aligns with the APO's GP 2.0 endeavor and aims to expand the scope of GP to other economic sectors beyond manufacturing.
Topics	Overview of smart buildings and key technologies; Smart building design, operation, and major protocols and standards; Data utilization for predictive maintenance, cybersecurity, and risk management; and Methodology to quantitatively measure and analyze energy efficiency gains.
Outcome	Equipped with practical knowledge and tools, organizations and member economies will be able to implement and scale smart building initiatives, accelerating the transition to low-carbon, energy-efficient infrastructure aligned with national and global sustainability targets.
Qualifications	Government officials, technical officers, project managers, and sustainability professionals involved in building design, energy systems, or digital transformation of facilities with a focus on environmental performance and productivity.

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

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Secretary-General