PROJECT NOTIFICATION

Reference No.: 353

Date of Issue	22 March 2024
Project Code	24-CP-41-GE-TRC-A
Title	Training Course on Greening Supply Chains through Industry 4.0
Timing	22 July 2024–26 July 2024
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	22 May 2024
Remarks	Not Applicable

Objectives	Develop an understanding of key elements in the development of green supply chains (GSCs); learn about Industry 4.0 (I4.0) technologies solving sustainability challenges and their integration in business ecosystems; and gain firsthand experience of leveraging I4.0 technologies in decoupling industrialization from environmental degradation.
Rationale	Achieving productivity gains and enhanced environmental performance at organizational level calls for involvement of upstream and downstream enterprises, logistics partners, and end users. With the advent of I4.0 technologies, identification of appropriate technologies and their effective implementation contribute to envisaged gains while building eco-friendly business ecosystems.
Background	Numerous internal and external factors such as risk management, regulations, brand image, consumer demand, and innovation motivate large businesses to work with suppliers to improve business operations, integrate sustainability principles, and foster innovation to design eco-friendly products and services. Greening of supply chains calls for developing and implementing GSC programs, collaborative partnerships with vendors, and focusing on reverse logistics and product stewardship.

I4.0 technologies like AI, additive manufacturing, the IoT, and radio-frequency identification (RFID) enable greening in manufacturing, design, logistics, warehousing, and carbon emission management. Leveraging these technologies individually or in combination has positive implications for productivity, resource optimization, workforce skills, and environmental performance. This is in line with the APO Green Productivity concept. This training course will cover integration of I4.0 technologies into GSC frameworks. |
Topics	Developing and implementing a GSC program; Working with partners on procurement, standards, logistics, product design, and supply and demand matching; Performance assessment indicators of a GSC program; I4.0 technologies, implementation, and challenges in GSCs; and Case studies, exercises, and field visits to showcase integration of I4.0 technologies for greening businesses.
Outcome	Enhanced understanding of developing and implementing GSC programs, ability to apply I4.0 technologies in GSCs, and increased adoption of I4.0 technologies in enterprises across APO members.
Qualifications	Government officials, representatives of industrial associations, SME owners or senior managers, and trainers and consultants working on technology interventions, supplier/vendor relations, supply chain management, carbon emission reduction, and climate change mitigation.

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

Dr. Indra Pradana Singawinata
Secretary-General