PROJECT NOTIFICATION

Ref. No.: 22-CP-01-GE-TRC-A-PN2200054-001

Date of Issue	20 May 2022
Project Code	22-CP-01-GE-TRC-A
Title	Training Course on Advanced Internet of Things Applications for Smart Manufacturing
Timing and Duration	5–8 July 2022 (four days)
Hosting Country(ies)	Republic of China
Modality	Digital Multicountry
Implementing Organization(s)	China Productivity Center and APO Secretariat
Participating Country(ies)	All Member Countries
Overseas Participants	38
Local Participants	12
Qualifications of Participants	SME executives, representatives of industrial associations, consultants, productivity practitioners with experience in manufacturing management, and government officials and policy research officers involved in industrial policy and development strategies for the SME and manufacturing sectors
Nomination of Participants	All nominations must be submitted through National Productivity Organizations of member countries
Closing Date for Nominations	20 June 2022

1. Objectives

a. Understand the latest trends in the Internet of Things (IoT) and its complementarities with other technologies to create synergies in business operation.

b. Impart knowledge of digitization in factories and enterprises through interactive hands-on practice.

c. Disseminate knowledge of suitable technologies and strategies for smart manufacturing.

2. Background

Application of the IoT has become a foundation for businesses to enhance productivity and adopt smart manufacturing. The IoT has proven highly effective in reducing downtime, monitoring quality, improving energy efficiency, enabling predictive maintenance, and better understanding customers' needs.

The Asia-Pacific region has adopted the IoT progressively. A Microsoft survey in 2021 reported that businesses in the Asia-Pacific had a higher ratio than the global average of investment in learning about, piloting, and purchasing IoT technologies, which helps them gain higher productivity, more optimized operations, and greater opportunities for innovation. WEF analysis in 2021 also showed that adoption of the IoT was accelerated as a response to the COVID-19 pandemic. Both SMEs and larger businesses leveraged the IoT to ensure real-time monitoring and adjustment of production, remote control and maintenance, and overall agility and flexibility for business continuity.

The IoT has much more to offer to manufacturers through its complementarities and integration with related digital technologies, such as data analytics, edge and cloud computing, AI, and information security. This training course will impart advanced knowledge of IoT applications by providing interactive practice and enhance understanding of the synergies it can create when integrated with other technologies.

3. Scope, Methodology, and Certificate of Attendance

The duration of each day's sessions will be around three hours comprising presentations by experts, group discussions, and other relevant learning methods. The indicative topics of the presentations are:

Day 1:
- The IoT and smart factories
- Exercise: Understanding IoT devices and basic configurations

Day 2:
- The IoT and data analytics
- Exercise: Connecting IoT devices to the internet

Day 3:
- The IoT and information security
- Exercise: Collecting information

Day 4:
- IoT applications in manufacturing: Business use cases
- Exercise: Visualizing information for strategy development

The detailed program and list of speakers will be provided two weeks prior to the sessions with announcement of the names of the selected participants.

The participants are required to attend all sessions. This full participation is a prerequisite for receiving the APO certificate of attendance.

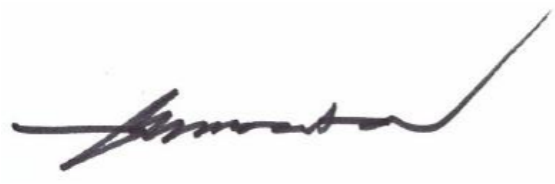
4. Financial Arrangements

a. The APO will meet the assignment costs for overseas resource persons.

b. The host country will meet the assignment costs of local resource persons and for a virtual site visit(s), either broadcast live or recorded as applicable.

5. Implementation Procedures

Please refer to the implementation procedures for APO digital multicountry projects circulated with this document.



Dr. AKP Mochtan
Secretary-General