

राष्ट्रीय उत्पादकता परिषद्

(वाणिज्य एवं उद्योग मंत्रालय, भारत सरकार के अन्तर्गत)

उत्पादकता भवन, 5-6, इंस्टीट्यूशनल एरिया,
लोदी रोड, नई दिल्ली -110 003



National Productivity Council

NATIONAL PRODUCTIVITY COUNCIL

(Under Ministry of Commerce & Industry, Govt. of India)

Utpadakta Bhavan, 5-6, Institutional Area,
Lodi Road, New Delhi - 110 003

No. 31105/21

Dt. 06-04-2021

Sub: 20-IN-97-GE-TRC-A: Training Course on Critical Big Data Analytics to Drive Productivity (DMC), Digital Multicountry (DMC). (Visit <https://www.npcindia.gov.in/NPC/User/InternationalServices> for detailed Project Notification.

Dear Sir,

We invite your kind attention to NPC <https://www.npcindia.gov.in/NPC/User/InternationalServices> with regard to above Asian Productivity Organization (APO) project. The project notification and the APO bio data form are available on the above mentioned page and the same are also attached herewith. The duly filled in **single copy** of Performa enclosed (in excel form only) of the suitable officers for participation as per the para (**Qualifications for Participants**) of the project notification may kindly be forwarded to reach us latest by **13th, April 2021**. In this regard, the following points may be noted.

- **Fees and Charges**

The Participation fees (NON-REFUNDABLE) of **Rs. 500/-** for MSME Sector, Trade Unions and NGO's and **Rs. 1000/-** for others is payable along with the nomination form for each participant.

The requisite amount can be paid through a demand draft/cheque/ECS drawn in favour of National Productivity Council, New Delhi. In the regard, the bank account of NPC details is attached herewith. Kindly e-mail the details of the ECS/RTGS/NEFT payment made, **mentioning the name of applicant in remarks**, to mayank.verma@npcindia.gov.in, isg@npcindia.gov.in, rk.rawat@npcindia.gov.in Please note, in the absence of application fee, the nomination will not be considered.

- **Nomination Procedure**

All nominations should be routed through proper channel and as per the attached APO bio data form. The nominations received after the last date will not be considered. It is the responsibility of the candidates to complete all the official formalities required by their organizations/department for participating in the program.

It is requested to send nominations by e-mail to mayank.verma@npcindia.gov.in, isg@npcindia.gov.in, rk.rawat@npcindia.gov.in (**application in prescribed excel format**) and one hard copy by post along with the covering letter of the competent authority on company's letter head. All information pertaining to nominations will be treated as confidential and classified. The nominated officers may be invited as a faculty in programs on the relevant subject/s, organized by NPC.

We look forward to receiving of nominations from your esteemed organization.

Thanking you,

Yours faithfully,

(K.D. Bhardwaj)
Director & Head (Int'l Serv.)
for Director General
e-mail: isg@npcindia.gov.in



PROJECT NOTIFICATION

Ref. No.:20-IN-97-GE-TRC-A-PN2000001-003

Date of Issue	19 March 2021
Project Code	20-IN-97-GE-TRC-A
Title	Training Course on Critical Big Data Analytics to Drive Productivity
Timing and Duration	26–28 April 2021 (three days)
Hosting Country(ies)	Thailand
Modality	Digital Multicountry
Implementing Organization(s)	Thailand Productivity Institute and APO Secretariat
Participating Country(ies)	All Member Countries
Overseas Participants	19
Local Participants	12
Qualifications of Participants	Government officials, representatives of government agencies and private-sector enterprises, and National Productivity Organization officers working on data science, big data-related training, and other productivity improvement initiatives driven by data analytics
Nomination of Participants	All nominations must be submitted through National Productivity Organizations of member countries
Closing Date for Nominations	13 April 2021

Notes: This PN supersedes the PN issued on 14 January 2020 and PNR issued on 20 May 2020 due to a change in implementation modality from face-to-face to digital sessions.

1. Objectives

- a. Develop an understanding of the key tools and methodologies in data science and data analytics, including the use of data mining, machine learning, visualization techniques, predictive modeling, and statistics.
- b. Gain hands-on experience in using common statistics programming languages and big data tools, including Excel and Tableau, for problem analysis and decision-making.
- c. Discuss opportunities and challenges in using data analytics to solve real-world productivity problems across various economic sectors (industry, agriculture, services, and public sector).

2. Background

Digital transformation requires knowledge, awareness, sound strategies, technical support, appropriate infrastructure, and champions. It also involves the translation of big data into more efficient processes within factories, enterprises, and public-sector organizations. However, the volume, velocity, variety, veracity, and value (5Vs) of big data mean that data analytics are now more important than ever to condense large volumes of disparate raw data into useful insights to make appropriate decisions. With advances in computing power, data analytics have evolved into highly automated algorithms that yield valuable insights for decision making in enterprises, industries, and governments.

This training course will enable participants to learn essential data analytics skills applicable to the industry, service, agriculture, and public sectors. Understanding the fundamentals of big data analytics, including but not limited to descriptive, predictive, and prescriptive modes, will fundamentally enhance the productivity of enterprises, businesses, and public-sector operations by enabling them to adopt evidence-based decision-making processes driven by data and insights. Decision making throughout the organization will therefore be more informed and better guided.

Many APO member countries have prioritized digital transformation and data analytics as important agenda items in their socioeconomic development plans. Working closely with NPOs, the APO Secretariat conducted the training course on Big Data Analytics for Public-sector Productivity in November 2019. This upcoming training course will expand the sectoral scope. Using actual case studies addressing real-world problems, participants will be exposed to various methods of data analytics using step-by-step processes, tools, and methodologies to enhance productivity in a data-driven world.

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:

Introduction to big data analytics

- The “big question”: Asking the right questions for impactful and high-quality data analytics.
- What are big data and their role in the economy?
- Types of analytics: Descriptive, predictive, and prescriptive analytics.

Data management for various economic sectors

- Data collection, integration, utilization, and querying for various economic sectors.

Day 2:

- Harnessing the power of big data visualization.
- Making sense of graphs and charts for productivity gains.

- Data-driven methodologies and step-by-step processes for better decision-making.
- Hands-on activities: Applications of graphs and charts in decision making to increase productivity.

Day 3:

- What is machine learning and how can it be used for productivity gains?
- Automation with machine learning techniques.
- Types of machine learning algorithms.
- Hands-on activities: Essential applications of machine learning techniques.

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