



PROJECT NOTIFICATION

Ref. No.: 22-IP-05-GE-DLN-A-PN2200056-002

Date of Issue	31 May 2022
Project Code	22-IP-05-GE-DLN-A
Title	APO e-Course on Regulating Emerging Technologies
Launch Date	14 October 2022
Hosting Country(ies)	APO Secretariat
Modality	Digital Learning
Implementing Organization(s)	APO Secretariat
Participating Country(ies)	Open
Overseas Participants	Not Applicable
Local Participants	Not Applicable
Qualifications of Participants	Open
Nominations of Participants	Not Applicable
Closing Date for Nominations	Not Applicable

1. Objectives

- a. Enhance the knowledge of participants of the principles, mechanisms, and practices of regulating emerging technologies.
- b. Learn about policies on regulating emerging technologies in APO members and around the world for improving innovation, competitiveness, and welfare.
- c. Understand the rationale behind regulating emerging technologies to both propel development and ensure the health, safety, and well-being of society.

2. Background

Emerging technologies offer opportunities to improve how the Asia-Pacific lives and works and to boost the region's productivity. Artificial intelligence, augmented reality, biotechnology, and blockchain technology, to name a few, are anticipated to revolutionize fields as diverse as agriculture, healthcare, and finance. Emerging technologies present a regulatory challenge, however. The development and commercialization of technology need a supportive regulatory ecosystem.

Policymakers and other key stakeholders must manage this delicate balance for emerging technologies. If risks are not properly managed, then disastrous consequences could affect the health and well-being of society. This is challenging because of the degree of scientific uncertainty surrounding them and their use and continued development, resulting in regulatory ambiguity. Historically, regulation has evolved reactively around relatively mature industries. Given the need for proactive measures, regulating emerging technologies will require a more modern approach. Regulation will need to be outcome focused, involve experimentation, and the result of multiple-stakeholder collaboration. Governments must work with academia, industry, and civil society to compensate for their own technical shortcomings. This will be particularly important in the Asia-Pacific region, where technology trends like automation are set to disrupt major industries like textiles.

This course will offer practical examples and explanations of regulatory approaches to emerging technologies. Participants will be able to examine how these approaches relate to their own countries and industry contexts, with the aim of improving productivity and safeguarding societal well-being.

3. Modality of Implementation

- a. The course is offered through the APO e-learning platform: <https://www.apo-elearning.org>
- b. Participants should register on this portal and create their own accounts.
- c. Certificates of completion will be provided for those who satisfactorily complete all the modules of the course, including quizzes and a final examination.

4. Scope and Methodology

The course will comprise five modules:

Introduction

Module 1:
Emerging technology and regulation: An overview

Module 2:
Agile governance and regulatory models for emerging technologies

Module 3:
Data and privacy in the digital age

Module 4:
Governance of artificial intelligence and algorithms

Module 5:
Regulation of gene editing and biotechnology

Self-assessment quizzes and a final examination

Methodology

Module study, additional study material for participants, quizzes for self-assessment, and a final examination.

5. Requirements

- a. Have necessary devices and software comprising a computer/smartphone, updated browser, microphone, and speaker or headphones.
- b. Access to internet connections.
- c. Completion of all the modules, quizzes, and final examination.
- d. The APO e-certificate will be given to participants who score a minimum of 70% on the final examination.

6. Financial Arrangements

The APO will meet the assignment costs for resource persons to develop the course modules including quizzes and a final examination.

7. Actions by APO Members

- a. Promote the course nationwide.
- b. Provide the link to the APO e-learning platform on NPOs' websites and social network services.

8. Actions by the APO Secretariat

- a. Identify and assign the resource person(s) to develop the course.
- b. Announce course commencement on the APO website and social network services.



Dr. AKP Mochtan
Secretary-General