



PROJECT NOTIFICATION

Reference No.: 441

Date of Issue	25 July 2024
Project Code	24-CP-16-GE-DLN-A
Title	APO e-Course on Innovative Unmanned Aerial Vehicle Applications in Agriculture
Timing	29 November 2024
Hosting Country(ies)	APO Secretariat
Venue City(ies)	Not Applicable
Modality	Digital Learning
Implementing Organization(s)	APO Secretariat
Participating Country(ies)	Open
Overseas Participants	Not Applicable
Local Participants	Not Applicable
Closing Date	Not Applicable
Remarks	Timing is the target launch date of the e-course.

Objectives	Understand how unmanned aerial vehicle (UAV) technologies are utilized in agriculture; acquire knowledge of the effective use and applications of UAVs in monitoring, mapping, and analyzing crops; and learn about operational aspects and regulatory requirements specific to UAVs in agriculture.
Rationale	Leveraging UAV technology enhances agricultural productivity, cost-effectiveness, and sustainability. This course explores UAV advantages and challenges, offering practical examples in precision agriculture. Participants will gain insights into operational and regulatory aspects, equipping them to integrate UAVs responsibly, optimizing resource management and decision-making in agriculture.
Background	<p>The use of UAVs in agriculture has seen a rapid increase in recent years, bringing numerous benefits to farmers and agribusinesses. A Markets and Markets report in 2020 predicted that the global agricultural drone market would grow to USD5.7 billion by 2025, a growth rate of 35.9%. UAVs have the potential to revolutionize agriculture by improving crop monitoring and reducing operational costs. However, the knowledge and expertise to effectively utilize UAV technology are lacking.</p> <p>This e-course will provide basic knowledge on the use and applications of UAVs in agriculture, covering key areas such as data collection and analysis, crop monitoring, and farm management, with an emphasis on practical applications.</p>
Topics	Introduction to UAV technologies in agriculture; Monitoring, mapping, and analysis with UAVs; Precision agriculture with UAVs: Practical examples; UAV operations and regulatory compliance in agriculture; and Future trends and challenges in UAV-based precision agriculture.
Outcome	Participants understand the latest advances in UAV technology and benefits and challenges associated with its use in precision agriculture as well as legal and ethical considerations involved in using UAVs, helping them to implement UAV technologies responsibly and sustainably.
Qualifications	Open to all participants in APO members and nonmembers.

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



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