

Training Catalogue

2021-2022

Global Coordinates is a New Delhi based company providing integrated solutions in the following areas:

- Conducting Aeronautical Study for the proposed extension of an existing or a new obstacle to establish whether it affects the safety or regularity of the aircraft or cause any deterioration of the OCA/OCH values.
- To assist Airport operators in obstacle monitoring and assessment in a GIS environment. Preparation of electronic Obstacle Charts as required by ICAO using specific chart symbols.
- Conducting trainings together with global partners

At Global Coordinates we are always looking into how to server our customers in a better way and for that reason we are bringing now this Instrument Flight Procedure Design training offering to India. The current situation makes us need to begin with virtual trainings to be delivered using well established conferencing systems (Zoom) and online training campus.

As the situation improves in 2022 we will explore the opportunity to bring face-to-face training and meet in person at the training facilities we designate for this purpose, we are always looking forward to meet each one of you in person.

This training catalogue includes courses related to Instrument Flight Procedure Design (PANS OPS) and it has options for aviation enthusiasts, managers, supervisor, flight engineers and for those that will be really getting into designing the different flight paths for the safe travels of aircrafts.

If you would like to know more about our training offering please free to contact us

+91-11-26371591 (landline) +91-11-26371594 (landline) +91 9873182146 (mobile)

or email

info@globalcoordinates.net aparna@globalcoordinates.net FLYGHT7, with whom we have partnered for these trainings is managed by Mr. Antonio Locandro.

Mr. Locandro has extensive PANS OPS knowledge including more than 16 years experience working with Geographic Information Systems and within Civil Aviation.

Throughout his career Mr. Locandro has participated in projects with ICAO Technical Cooperation Bureau (TCB) for Airport Obstacle Assesment, worked in a regional Air Navigation Service Provider in Latin America dealing with Aeronautical Charting, PANS OPS & Aeronautical Information Management and consulted for a UK based IFPD company gCAP Ltd for five years.

His training experience includes AIM and PANS OPS in different parts of the world including Central America, Guyana, Singapore and United Kingdom.

FLYGHT7 is a company focused on optimizing the delivery of high-performance instrument flight procedure design that enhances operational safety & increase airspace flexibility by leveraging data analytics that provides services regarding:

- Instrument Flight Procedure Design, Aeronautical Information Management (AIM) & training
- Aeronautical Charting including the provision of obstacle assessments and training
- Geographic Information Systems use and training
- Ad-hoc consulting

www.flyght7.com



Introduction to Instrument Flight Procedure Design (PANS-OPS)



Language: English

The course covers the key aspects of PANS-OPS ICAO Doc 8168 Volume II (Construction of Visual & Instrument Flight Procedures) and provides an overview of the essential areas & obstacle clearance requirements for the achievement of safe, regular instrument flight operations.

This is not a design course, but it is meant for participants to know what is involved in the procedure design process. It will provide a general understanding to managers, supervisors, safeguarding officers and anyone that may be involved in making sure the obstacle environment around the airport is not affected from potential obstructions including airline operation and performance engineers.



[Course Duration: 40 hours

The course is typically conducted in 10 live-sessions of 4 hours each (half-days) delivered via Zoom and the online training campus containing additional resources and self-study activities to reinforce concepts. *



Pre-requisites



Content

- ✓ Obstacle Limitation Surfaces Overview

The course includes both theoretical and practical aspects to solidify concepts, a final project based on a simulated airport environment is performed as well as guizzes and a theoretical assessment.

*This training can also be delivered as an on-campus 1 week (40 hours) course when travel restrictions ease



Learning Objectives

At the end of this course participants will have the general Instrument Flight Procedure Design (IFPD) background to understand what is involved in the design of procedures and safeguarding airports more effectively.



PANS OPS General Criteria Non-Precision Approach Design



Language: English

The course provides the essential knowledge on PANS-OPS ICAO Doc 8168 Volume II (Construction of Visual & Instrument Flight Procedures) and provides an overview of the protection areas and obstacle clearance requirements for the achievement of safe, regular instrument flight operations.



[Course Duration: 80 hours

The course is typically conducted in 20 live-sessions of 4 hours each (half-days) delivered via Zoom and the online training campus containing additional resources and self-study activities to reinforce concepts. *



Learning Objectives

At the end of this course participants will have the general Instrument Flight Procedure Design (IFPD) background for the design of Conventional Procedures including ENR & STARs based on VOR



Pre-requisites

- and linear equations (required)



Content

- Reversals and Racetrack Procedures

- Minimum Sector Altitude (MSA)

- Charting Requirements

The course includes both theoretical and practical aspects to solidify concepts, a final project based on a simulated airport environment is performed as well as quizzes 'and a theoretical assessment.

This training can also be delivered as an on-campus 2 week (80 hours) course when travel restrictions ease #



NS OPS Conventional Departures



Language: English

The course provides the essential knowledge on PANS-OPS ICAO Doc 8168 Volume II (Construction of Visual & Instrument Flight Procedures) and provides an overview of the protection areas and obstacle clearance requirements for the achievement of safe, regular instrument flight operations with an emphasis on departures.



回忆 Course Duration: 40 hours

The course is typically conducted in 10 live-sessions of 4 hours each (half-days) delivered via Zoom and the online training campus containing additional resources and self-study activities to reinforce concepts. *



Pre-requisites

- *⋖***General Aviation Knowledge**
- **▼PANS OPS General Criteria & Non-Pre**cision Approach Design (PANSOPS-111) or equivalent



Learning Objectives

At the end of this course participants will have the general Instrument Flight Procedure Design (IFPD) background for the design of Conventional Procedures departures based on VOR and NDB



Content

- ✓ Introduction to PANS-OPS Vol II & General Design Criteria for departures
- ✓ Departure Areas

The course includes both theoretical and practical aspects to solidify concepts, a final project based on a simulated airport environment is performed as well as guizzes and a theoretical assessment.

^{*}This training can also be delivered as an on-campus 1 week (40 hours) course when travel restrictions ease



Performance Based Navigation



Language: English

The course explains Performance Based Navigation (PBN) and Required Navigation Performance (RNP). It includes information on the components which are required for the construction of Area Navigation (RNAV) instrument flight procedures based on the Global Navigation Satellite System (GNSS).



[Course Duration: 80 hours

The course is typically conducted in 20 live-sessions of 4 hours each (half-days) delivered via Zoom and the online training campus containing additional resources and self-study activities to reinforce concepts. *



Pre-requisites

Non-Precision Approach Design (PANSOPS-111) or equivalent (PANSOPS-112) or equivalent





Learning Objectives

At the end of this course participants will have the general Instrument Flight Procedure Design (IFPD) background for Performance Based Navigation (PBN), RNAV and RNP including SIDs and STARs.



Content

- Overview
- stabilization distances & turn computations
- & GNSS procedures

- (TAA)

The course includes both theoretical and practical aspects to solidify concepts, a final project based on a simulated airport environment is performed as well as guizzes 'and a theoretical assessment.

This training can also be delivered as an on-campus 2 week (80 hours) course when travel restrictions ease #



PANS OPS Approach with Vertical Guidance (ILS & SBAS criteria)



Language: English

The course explains Performance Based Navigation (PBN) and Required Navigation Performance (RNP). It includes information on the components which are required for the construction of Area Navigation (RNAV) instrument flight procedures based on the Global Navigation Satellite System (GNSS).



回忆 Course Duration: 80 hours

The course is typically conducted in 20 live-sessions of 4 hours each (half-days) delivered via Zoom and the online training campus containing additional resources and self-study activities to reinforce concepts. *



Pre-requisites

Non-Precision Approach Design (PANSOPS-111) or equivalent (PANSOPS-221)



Content

- Surfaces (OAS) and CRM criteria

The course includes both theoretical and practical aspects to solidify concepts, a final project based on a simulated airport environment is performed as well as guizzes and a theoretical assessment.

*This training can also be delivered as an on-campus 2 week (80 hours) course when travel restrictions ease



Learning Objectives

At the end of this course participants will have the general Instrument Flight Procedure Design (IFPD) background applicable to ILS and SBAS, including the use of PBN transitions to the ILS



Language: English

The course covers the key aspects of PANS-OPS ICAO Doc 8168 Volume II (Construction of Visual and Instrument Flight Procedures) and provides an overview of the essential areas and obstacle clearance requirements for the achievement of safe, regular instrument flight operations. This is a course for fully trained procedure designers that wish to refresh their knowledge and keep current with latest PANS OPS developments



@P Course Duration: 40 hours

The course is typically conducted in 10 live-sessions of 4 hours each (half-days) delivered via Zoom and the online training campus containing additional resources and self-study activities to reinforce concepts. *



Pre-requisites



Content

- ✓ Latest criteria changes

- Explanation of the most frequently asked questions about IFPD
- ✓ Open discussion for Questions & Answers

The course includes both theoretical and practical aspects to solidify concepts, a final project based on a simulated airport environment is performed as well as guizzes 'and a theoretical assessment.

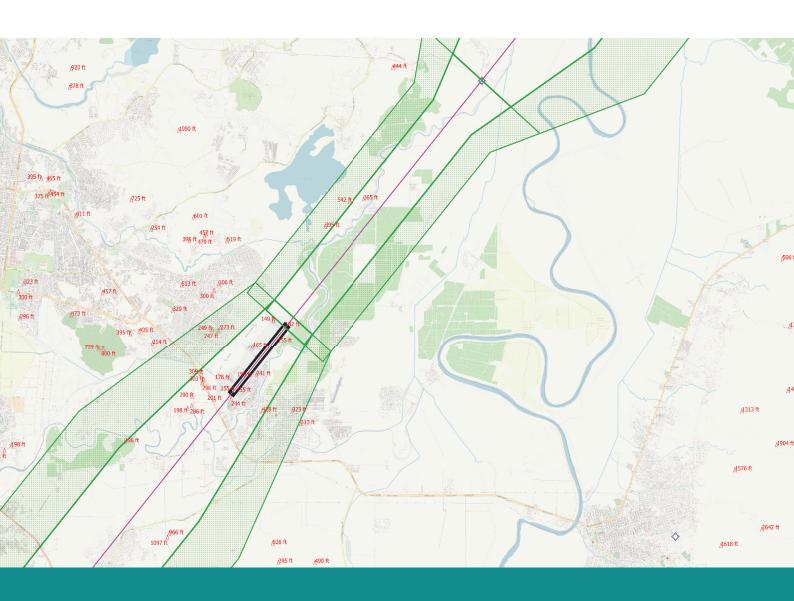
*This training can also be delivered as an on-campus 1 week (40 hours) course when travel restrictions ease



Learning Objectives

At the end of this course participants will refresh their knowledge on Instrument Flight Procedure Design (IFPD)





D 19, 2nd floor, Okhla Phase I, Okhla Industrial Area, New Delhi- 110020, India

www.globalcoordinates.net www.prithvipraroop.net To talk to a Global Training representative call

+91-11-26371591 (landline) +91-11-26371594 (landline) +91 9873182146 (mobile)

or email

info@globalcoordinates.net aparna@globalcoordinates.net