

Training Item (ICAO Doc.9906)

Initial Training

Knowledge of information in PANS-OPS, Vol. I and II and other related ICAO provisions

- a. PANS-OPS, Vol. I
- b. PANS-OPS, Vol. II
 - 1 General PANS-OPS subject areas
 - (1) data quality requirements
 - (2) charting requirements
 - (3) environmental considerations
 - (4) quality assurance requirements
 - 2 Procedure design criteria for each type of procedure to be validated
 - (1) obstacle protected areas
 - (2) required obstacle clearance for any given segment of a procedure
 - (3) climb and descent gradients
 - (4) ARINC coding
- c. Required Navigation Performance-Authorization Required Manual (if applicable)
- d. Quality Assurance Manual for Flight Procedure Design
- e. Annex 14

Note. – Substantial portions of the required knowledge in PANS-OPS can be obtained in a PANS-OPS procedure design course.

Knowledge and skills in ground and flight validation of procedures

- a. Ground training in flight and ground validation duties:
 - 1 Manual on Testing of Radio Navigation Aids (Doc 8071)
 - 2 flight inspection requirements
 - 3 procedure package contents
 - 4 procedure package review
 - 5 techniques and considerations for ground validation of obstacle data
 - 6 requirements, techniques and considerations for obstacle assessment in flight
 - 7 airport infrastructure assessment
 - 8 communications coverage
 - 9 fly-ability/Human Factors assessment
 - 10 charting considerations
 - 11 operational factors
 - 12 criteria to be met for waiving the requirement for a flight validation
- b. Flight training in flight validation duties:
 - 1 flight inspection requirements
 - 2 obstacle assessment requirements, techniques and considerations
 - 3 airport infrastructure assessment
 - 4 communications coverage
 - 5 fly-ability/Human Factors
 - 6 charting considerations
 - 7 operational factors
- c. Supervised OJT adequate to achieve the required level of competency in flight and ground validation knowledge and skills
- d. Initial ground and flight evaluation

Recurrent training

Minimum knowledge and skills

- 1 update on changes in PANS-OPS criteria
- 2 review portions of PANS-OPS criteria most relevant to current or projected duties
- 3 review changes in airport infrastructure requirements
- 4 knowledge and skills related to new developments in flight validation