

Instrument flight procedure designer

Instrument flight procedure designers develop and maintain documented instrument-flight procedures within an authorized system. They work with controlled data, review and validation; this guide does not teach design calculations. Airservices and Leidos examples show different national frameworks and seniority levels. Neither employment nor completing a course alone establishes unrestricted design authority. [EMP1, EMP2, REG1]

What the role does

- Develop or amend instrument flight procedures and supporting documentation. [EMP1, EMP2]
- Assess the impact of changed aeronautical information on assigned procedures. [EMP2]
- Coordinate review, assurance and relevant validation activities. [EMP1]

Where the work happens

Procedure-design office; Coordination with airspace, aerodrome, validation and regulatory teams.

Employer example 1

Airservices Australia • Australia • Senior Instrument Flight Procedure Designer (502901)

Active vacancy when checked • Checked 2026-10-27 [EMP1]

Category	What this employer states
Essential in this source	Basic and Advanced PANS-OPS courses; extensive design experience; regulatory, assurance and leadership capability. Eligibility for Chief Designer appointment under Part 173. Australian citizenship and ability to obtain/maintain stated security clearance and ASIC.
Desirable in this source	Regulated-aviation experience and air-navigation-service understanding are highly regarded.
Other stated conditions	Senior role, not an entry-level course.

One employer and stated role only; this record does not establish current hiring unless explicitly marked active.

Employer example 2

Leidos • United States • TERPS Specialist (R-00193771)

Active vacancy when checked • Checked 2026-10-27 [EMP2]

Category	What this employer states
Essential in this source	Bachelor's plus four years relevant experience, or equivalent education/experience; aviation experience. Office/Adobe proficiency and Public Trust suitability.
Desirable in this source	FAA/DoD procedure background, ATC experience, instrument/commercial pilot or instructor credentials; relevant aviation degree.
Other stated conditions	Listing labels work remote but also requires Oklahoma City location/relocation; clarify the arrangement.

One employer and stated role only; this record does not establish current hiring unless explicitly marked active.

PREPARE AND VERIFY

Separate requirements from preparation

Australia; authorization and organizational context: CASA identifies Part 173 requirements for design organizations and their personnel. It states that design work must be undertaken by CASA or an appropriately

authorized/permitted person. The senior vacancy's Chief Designer condition must therefore be checked separately from general educational preparation. US contract conditions are employer examples, not a complete FAA authorization analysis. [REG1, REG2]

Still to verify: Complete US personal/function authorization requirements have not been independently reviewed. Vacancy availability and the Leidos location arrangement need rechecking before application.

Explore a realistic entry route

- First identify the national design framework and the kind of organization employing designers. Distinguish a trainee opportunity from a senior technical appointment. Record the relevant authority, employer and intended design scope before comparing training advertisements.
- Compare foundations in mathematics, spatial data and aviation with the actual notice. Treat courses, supervised experience and appointment approval as different questions. Ask the training provider and prospective employer which learning is recognized for the intended role, without assuming international portability.
- Build an honest development plan for supervised work and review. Use current official material to understand the sequence at a high level; do not attempt to publish procedures or present an unsupervised study exercise as an approved design.

Build evidence of your skills

- Make a traceability table for a fictional museum-map revision: change request, source, affected items, reviewer and version. Demonstrate that every change can be explained without inventing aviation geometry.
- Prepare a one-page check of a simple non-aviation instruction sheet against its stated requirements. Separate a confirmed discrepancy from a question, and show how you would request review rather than quietly changing an ambiguous requirement.

Prepare for an interview

Reflection prompts only, not questions claimed to be used by an employer.

- Preparation prompt: how would you distinguish completing technical work, independently reviewing it and approving its use? Explain the boundaries, not an operational procedure.
- Prepare a real example of finding an inconsistency in complex documentation. Describe your evidence, escalation and recordkeeping. Do not claim a learner exercise demonstrates professional design competence.

Investigate possible next roles

Investigate validation, instruction or chief-designer appointments only after checking their additional experience and approval conditions. The senior examples are possible destinations to research, not a promised sequence or timetable.

Sources and scope

[EMP1] [Airservices Australia Senior Instrument Flight Procedure Designer \(502901\)](#)

Active vacancy when checked. Australia. Checked 2026-10-27.

[EMP2] [Leidos TERPS Specialist \(R-00193771\)](#)

Active vacancy when checked. United States. Checked 2026-10-27.

[REG1] [CASA Part 173 of CASR Instrument flight procedure design](#)

Design-service certification, personnel qualifications/training and ongoing procedure maintenance. Overview marks the rule changing; consult current instruments and applicable exemptions, not this guide for a full eligibility decision. Checked 2026-10-27.

[REG2] [CASA Certified instrument flight procedure designers](#)

Design, review or amendment must be performed by CASA or a person authorized/permitted under Part 173. Authorization scope must be checked; no implication that a course creates approval. Checked 2026-10-27.

Educational reference. Verify current requirements with the relevant authority and employer. Examples are selected employer conditions, not an exhaustive application checklist or worldwide eligibility rules. Verify the current notice before acting. Learning exercises are not operational training, assessment or evidence of professional authorization. No job guarantee.