

CFI Lesson Plan for Daniel K. Inouye International Airport (HNL) - Runway Safety

OBJECTIVE

The GA students will learn the challenges faced when taxiing and operating at Daniel K. Inouye International Airport (HNL) and how to avoid runway incursion errors.

STANDARDS

- The student will exhibit satisfactory knowledge of common airport markings for taxi and runway operations at Daniel K. Inouye International Airport and be able to successfully demonstrate to the instructor effective taxiing operations from the aircraft parking area to the active runway for takeoff and from the runway after landing to the aircraft parking spot.
- The student will exhibit satisfactory knowledge of the problem of wrong surface landings, their applicability to HNL, and will be able to successfully demonstrate to the instructor effective arrival procedures and techniques to ensure landing on the assigned runway.

MATERIAL

Approved Daniel K. Inouye International Airport diagram, FAA runway/taxiway markings diagram and the short FAA video reviewing Daniel K. Inouye International Airport operations near runways 4/22 L&R and south ramp.

OUTLINE

This should be scenario-based training or one-on-one training, depending upon student experience.

- Review taxiway markings with special attention for “hold short lines,” runway and taxiway signage and enhanced taxiway markings
 - *Emphasize “hold short line” locations at HNL between runways 4R and 4L (22L and 22R)*
- Review a typical taxi instruction from both T Hangar area and from flight schools/businesses located on Daniel K. Inouye International Airport south ramp to the active runway
 - *Review a taxi scenario from the GA students normal parking area to the active runway (use both trade and Kona wind operations)*

- Help student develop a short-hand method to copy taxi clearances and to review airport diagram for route review
 - *Ensure student listens to ATIS for any runway/taxiway closures or work*
- Ensure students perform ALL checklist items when NOT moving
 - *Develop procedures of “eyes outside” when taxiing and what and when increased vigilance is required*
- Remind students if uncertain to stop and ask (progressive taxi instruction)
- Review HNL runway 4 and 22 landing patterns
 - *Explain the potential for a wrong surface landing, i.e. incorrectly landing on the parallel runway or on Taxiway C*
 - *Have students develop a memory aid for landing runway assignment*
 - *Assist students in developing an active scan which visually identifies the correct landing runway*
 - *Emphasize that pilots should request clarification if unsure of their landing runway assignment*
 - *Describe common errors which lead to wrong surface landings*
 - *Expectation Bias*
 - *Misidentified Landing Runway*
 - *Pilot Experience*
 - *Distractions*
 - *Airport Geometry*
 - *Flight Planning*
 - *Review what students should do after landing on runway 4L (or 22R)—again hold short lines. It is OKAY to block runway 4L (or 22R) if not cleared to cross parallel runway (ATC aware)*
 - *Review what students should do after landing on runway 4R (or 22L)—again hold short lines but okay to cross to clear active but NOT to enter taxiway C*
- Play the FAA video reviewing Daniel K. Inouye International Airport runway 4/22 operations and discuss the video – <https://youtu.be/OzwZvJPcGIs>

REVIEW

- Have student demonstrate knowledge of common airport markings for taxi and runway operations at Daniel K. Inouye International Airport. Have the student demonstrate by actual operation of an aircraft or by verbalizing procedures in the classroom by using the airport diagram for taxiing from various parking spots to the active runway and return operations after landing.
- Have student demonstrate knowledge of HNL wrong surface landing risks and demonstrate by actual operation of an aircraft or by verbalizing in the classroom, techniques and good operating practices to avoid landing on the wrong surface at HNL.

RESOURCES

- FAA Pilot Hand book of Aeronautical Knowledge, Airport AC 150-5340, Chapter 14, Airport Operations
https://www.faa.gov/regulations_policies/handbooks_manuals/aviation/phak/
- Single Pilot Taxi Procedures
https://www.faa.gov/regulations_policies/advisory_circulars/index.cfm/go/document.information/documentID/1020226
- [FAA WSA Quality Assurance Group, Wrong Surface Analysis](#)
- FAASTeam Notice Number NOTC 7400: Wrong Surface Landing Incidents
<https://www.faasafety.gov/SPANS/noticeView.aspx?nid=7400>
- FAA Runway Safety Pilot's Page
https://www.faa.gov/airports/runway_safety/pilots/
- AOPA Air Safety Institute Safety Spotlight – Runway Safety
<https://www.aopa.org/training-and-safety/air-safety-institute/safety-spotlights/runway-safety>
- FAA Safety Team (FAASTeam) Safer Skies Through Education
<https://www.faasafety.gov/>