

## Flight Lesson: DPs and STARs

### Objectives:

1. exhibit knowledge of the elements related to Standard Instrument Departures
2. exhibit knowledge of the elements related to Standard Terminal Arrivals
3. ability to receive SID departures and comply with clearance correctly
4. ability to receive STAR arrivals and comply with clearance correctly

### Schedule:

Activity	Est. Time
Ground	0.5
Preflight/Taxi	0.25
Flight	1.5
Debrief	0.25
<b>Total</b>	<b>2.50</b>

### Recommended Readings:

<b>IFH</b>	Ch 8: 8-12: Terminal Procedures Publications
	Ch 10: 10-5 to 10-9: Departure, En Route, Arrival Procedures
<b>IPH</b>	Ch 2: 2-12 to 2-32: Departure Procedures
	Ch 4: 4-14 to 4-23: Arrival Procedures

### Elements Ground:

- DPs
  - **General**
    - purpose
      - obstacle clearance
      - reduced communication
      - less delays
    - obstacle clearance protection
      - Assuming straight climb to 400' crossing runway end at 35' AGL, maintaing 200'/NM
    - textual or graphical
    - acceptance requirements
      - avoid by using Remarks filing
  - **Takeoff Minimums**
    - part 91 T.O. minimums authority
  - **SIDs**
    - large volume airports reduce workload on controllers
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  - **ODPs**
    - when published?
      - if obstacle pierces 40:1 climb gradient (152'/NM)

- Assumptions?
  - climb to 400' before turn u.o.n.
  - rate of 200'/NM u.o.n.
- when to use?
  - when not given specific departure instructions
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- Takeoff minimums sections
- DPs section
- **STARs**
  - General
    - Arrival Procedures at high density airports
    - At front of TPP
    - Serve multiple airports
    - Ends at a NAVAID then radar vectors
    - standard descent 3.1° or 330'/NM

### Elements Air:

- Departure Procedure