

Davis 4D

Cleese

INSTRUCTORS ^{SYLLABUS} ~~OUTLINE~~

Rove SWB

OV-1 MOHAWK

Leibers R.D.F.

50:00 HOURS

Kiddens J.P.

McLadden J.W.

Anderson

White J.P.

REVISED 11 FEBRUARY 1966

~~DB Solate~~

INSTRUCTOR OUTLINE

~~OV-1~~
AO-1 MOHAWK

50:00 HOURS

1 FEB 1966
REVISED 22 AUGUST 1961

PERIOD 1 FLIGHT TIME 00:00
STAGE I TOTAL 00:00

A. Flight Commanders Briefing.

B. Demonstrate and practice:

1. Pilot's exterior inspection.
2. Pilot's interior inspection.
3. Ejection seat inspection.

PERIOD 2 FLIGHT TIME 01:15
STAGE I TOTAL 01:15

A. Demonstrate and practice:

1. Location and operation of cockpit equipment and controls.
2. Pre-starting and starting procedures.
3. Taxiing:
 - a. Taxi patterns at Cairns AAF.
 - b. Reverse thrust and braking operation, emphasizing judicious use of brakes.
4. Run-up procedures.
5. Pre-takeoff check.
6. Engine shut-down.
7. Emergency exits.

PERIOD I + 2
STAGE I

FLIGHT TIME: ~~0:00~~ 1:15
Total - 1:15

A. Demonstrate and practice:

1. Pilot's exterior inspection.
2. Pilot's interior inspection.
3. Ejection seat inspection.

B. Demonstrate and practice:

1. Location and operation of cockpit equipment and controls.
2. Pre-starting and ~~warm-up~~ starting procedures.
3. Taxiing:
 - a. Taxi patterns at Cairns AAF.
 - b. Reverse thrust and brake operation, emphasizing judicious use of brakes.
4. Run-up procedure.
5. Pre-takeoff check.
6. Engine shut-down.
7. Emergency exit.

C. DEMONSTRATION AND ORIENTATION flight to include

1. Tour of aerobatic area.
2. Tour of contour area.
3. Flight procedures to include -
 - a. TAKE OFFS
 - b. Flight maneuvers
 - c. ~~Normal~~ Normal Landings

B. Demonstration and orientation flight to include:

1. Tour the aerobatic area.
2. Tour the contour area.
3. Flight procedures to include:
 - a. Take-off
 - b. Flight maneuvers
 - c. Normal and short field landings.
 - d. Use of communication radios.

PERIOD 3
STAGE I

FLIGHT TIME 01:15
TOTAL 02:30

A. Demonstrate and practice general flight procedures to include:

1. Normal take-offs,
2. Normal climbs and climbing turns.
3. Straight and level flight.
4. Normal turns.
5. Cruise procedures.
6. Normal glides and gliding turns.
7. Auto-feather glides.
8. Explanation of fuel system.
9. Demonstrate power application lag.
10. Use of propeller synchronization.
11. Normal landings.

12. AEROBATIC FLIGHT TO INCLUDE.

(a) EVASIVE MANEUVERS

(b) AILERON ROLLS

(c) MAX DIVE FLIGHT TIME 01:15

(d) RECOVERY FROM INVERTED FLIGHT TOTAL 03:45

PERIOD 4
STAGE I

A. Demonstrate and practice:

2

1. Slow flight
 - a. Clean
 - b. Landing configuration.
2. Stalls
 - a. Clean- Power on
Power off
 - b. Landing configuration- Power on
Power off
3. Steep turns

4. REVIEW PERIOD 3, STAGE I.

B. Demonstrate and practice:

1. Engine fire extinguishing procedures
2. Electrical system failures.

~~FORMATION FLYING.~~

PERIOD 5
STAGE I

FLIGHT TIME 01:15
TOTAL 05:00

A. Review Periods 2, 3 and 4 of Stage I as necessary.

B. Normal take-offs and landings

C. Normal traffic patterns

D. Tactical Traffic patterns

E. Use of flaps and speed brakes.

F. Demonstrate and practice hydraulic failures w/ simulated emergency gear extension.

FORMATION FLYING

PERIOD 6
STAGE I

FLIGHT TIME 01:30
TOTAL 06:30

A. Review parts B, C and D of Period 5, Stage I.

3

PERIOD 7
STAGE I

FLIGHT TIME 01:30
TOTAL 08:00

- A. Review parts B, C and D, of Period 5, Stage I.
- B. Demonstrate and practice:
 - 1. Low level navigation practice to and from training area.
 - 2. Fuel management.
 - 3. Contour flying.
 - 4. Contour approaches.

PERIOD 8
STAGE I

FLIGHT TIME 01:30
TOTAL 09:30

- A. Review Period 7, Stage I.
- B. Single engine operation:
 - 1. Identification of malfunctioning engine.
 - 2. Engine shut-down.
 - 3. Propeller feathering:
 - a. Manual
 - b. Auto-feather.
 - 4. Air starts.
 - 5. Single engine operation in combinations of gear, flaps, and power settings.
 - a. Turns
 - b. Slow flight.
 - c. Climbs
 - d. Descents.
 - e. Landings.
 - 6. Single engine approaches to stalls.
 - a. Clean
 - b. Landing configuration.
 - c. Go-around limitations.

PERIOD 9
STAGE I

FLIGHT TIME 01:30
TOTAL 11:00

A. Review Period 8, Stage I.

PERIOD 10
STAGE I

FLIGHT TIME 01:30
TOTAL 12:30

A. Review Period 8, Stage I.
B. Demonstrate and practice STOL characteristics:

1. Short field and barrier take-offs.
2. Maximum performance landings.
3. Crosswind landings and take-offs under STOL conditions.

2. Maximum performance landings:

a. 75-80 knots IAS on final to touch-down.

~~3. Crosswind landings and take-offs under STOL conditions.~~

~~3b. POWER AT 80% NI FOR MAX REVERSAL AT TOUCH-DOWN.~~

~~3. CROSSWIND LANDINGS AND TAKE-OFFS UNDER STOL CONDITIONS.~~

5

10

PERIOD 11
STAGE I

FLIGHT TIME: ~~1:20~~ 1:30
TOTAL: ~~13:00~~ 14:00

- A. Review parts B, C and D of Period 5, Stage I.
- B. Review part B of Period 7, Stage I.
- C. Review part B of Period 8, Stage I.
- D. Review part B of Period 10, Stage I.

PERIOD 12
STAGE I

FLIGHT TIME: ~~1:20~~ 1:30
TOTAL: ~~14:00~~ 15:30

- A. Review Period 11, Stage I.

PERIOD 13
STAGE I

FLIGHT TIME: ~~1:20~~ 1:30
TOTAL: 17:00

- A. Review Period 11, Stage I to include single engine procedures of Period 8 with STOL characteristics. ~~Demonstrate and practice STOL characteristics with single engine altitude.~~

PERIOD 14
STAGE I

FLIGHT TIME: ~~1:20~~ 1:30
TOTAL: ~~17:00~~ 18:30

- A. Review Period 13, Stage I.

PERIOD 15
STAGE I

FLIGHT TIME: ~~1:20~~ 1:30
TOTAL: 20:00

- A. Review Period 13, Stage I.

6

~~13~~ 2

PERIOD 16 17
STAGE I

FLIGHT TIME: 2:00

Total 22:00

- A. Demonstrate and practice night operation.
1. Location and operation of lighting equipment.
 2. Normal landings and take-offs.
 3. Landings and take-offs utilizing STOL characteristics.
 4. Single engine procedures.
- ~~.....~~

PERIOD 17 18
STAGE I

FLIGHT TIME: 2:00 S

total 24:00

- A. 1:00 day solo - normal landings and take-offs.
- B. 1:00 night solo. Review night operation.

PERIOD 18
STAGE I

FLIGHT TIME 2:00s

TOTAL 25:45

- A. 1:00 day solo - normal landings and take-offs.
- B. 1:00 night solo - Review night operations.

7

12

PERIOD 19
STAGE I

FLIGHT TIME 01:45
TOTAL 27:30

~~REVIEW PERIOD 13, STAGE I~~

- ~~A. Demonstrate and practice flight to include evasive maneuvers.~~
- ~~1. Aileron rolls.~~
 - ~~2. Maximum performance dives.~~
 - ~~3. Recovery from inverted flight.~~
- ~~4. Formation flying.~~

PERIOD 20
STAGE I

FLIGHT TIME 01:30
TOTAL 29:00

aA. Stage I flight evaluation, Evaluate

1. Normal procedures:
 - a. Pre-flight.
 - b. Start and run-up.
 - c. Normal take-off and landing.
 - d. Take-offs and landings under STOL conditions.
 - e. Stalls
 - f. Slow flight
 - g. Aileron rolls
 - h. Recovery from inverted flight.
 - i. Max-performance dives.
 - j. Systems.
2. Single engine procedures:
 - a. Engine shut-down
 - b. Air starts
 - c. Single engine during take-off, in the pattern, on base, on final.
 - d. Climbs, turns and descents.

PERIOD 21
STAGE II

FLIGHT TIME 02:00
TOTAL 31:00

A. Demonstrate and practice instrument flying.

1. Operation of all flight instruments and radio equipment.
2. Low altitude cruise performance.
3. Enroute procedures.
4. Instrument approaches:
 - a. ADF
 - b. VOR
 - c. ILS
 - d. GCA
5. Holding procedures.
6. Emergency procedures.
7. Single engine procedures.
8. IFF, Auto-pilot, and radar alt.

PERIOD 22
STAGE II

FLIGHT TIME 02:00
TOTAL 33:00

A. Review part A of Period 21

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PERIOD 23
STAGE II

FLIGHT TIME: 2:10
total 35:10

A. Review part A, Period 21.

PERIOD 24
STAGE II

FLIGHT TIME: 2:10
total 37:20

A. Review Period 23.

PERIOD 25
STAGE II

FLIGHT TIME: 2:10
total 39:30

A. Review Period 23.

PERIOD 26
STAGE II

FLIGHT TIME: 2:10
TOTAL 41:40

A. ~~Review Period 23.~~ HIGH ALTITUDE CRUISE
PERFORMANCE, B. USE OF OXYGEN
SYSTEM, C. PENETRATION.

PERIOD 27
STAGE II

FLIGHT TIME: 2:10
TOTAL 43:50

A. Review Period 23.

PERIOD 28
STAGE II

FLIGHT TIME: 2:10
TOTAL 46:00

A. Review Period 23.

~~PERIOD 29~~
~~STAGE II~~

~~FLIGHT TIME: 2:10~~
~~TOTAL 48:10~~

~~A. Review Period 23.~~

35:10

PERIOD 29
STAGE II

FLIGHT TIME: ~~2:00~~ 2:00
total 48:00

- A. Evaluate Stage I procedures as required.
- B. Evaluate instrument flying:
 - 1. Minimum of two approaches.
 - 2. Low altitude. ENROUTE PROCEDURES.
 - ~~3. Intermediate altitude if properly equipped aircraft available.~~
 - 3. Emergency and single engine procedures.
 - 4. Use of IFF, auto-pilot and radar altimeter.

PERIOD 30
STAGE II

FLIGHT TIME 2:00
TOTAL 50:00

- A. REVIEW STAGE I MANEUVERS
AS DESIRED.