

# Forced Landing Without Power Considerations

## CIRCUIT TRAINING

### Objectives

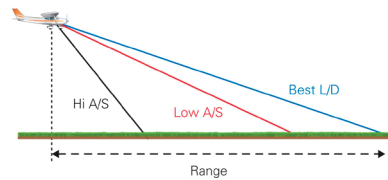
To carry out the recommended procedure in the event of a total or partial engine failure, incorporating the appropriate checklists.

To practice aeronautical decision making (ADM) to troubleshoot and rectify a partial power situation.

### 1. Considerations

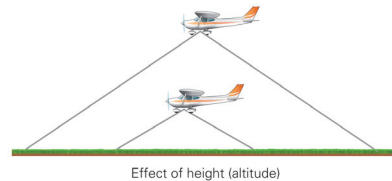
#### Best L/D Ratio – Airspeed

- At exactly \_\_\_\_\_ knots – approx 4° A of A
- Raising or lowering the nose reduces the distance covered
- Never raise the nose to 'stretch' the glide

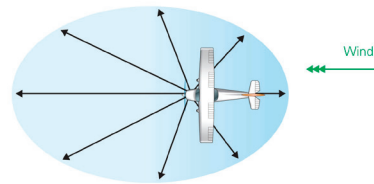


#### Height

- More height means more distance, and more time to plan



#### Wind



#### Partial Power

If some power is available:

- Close throttle or go somewhere better?
- What if it fails enroute?
- What is the terrain like enroute?
- What caused the failure? Will it cause more problems?
- How much altitude do you have?

### 2. Airmanship

- Simulated by closing throttle
- Trouble checks
- Passenger briefing
- Student to initiate go around
- Landing phase will be practiced later

### 3. Aeroplane Management

- Ts and Ps stable
- Engine warming every 1000'

### 4. Human Factors

- Pattern more important than perfect checks
- Practise will make it easier

### 5. Air Exercise

#### ① Immediate Actions

- Carb heat HOT, close throttle
- Convert speed to height
- Set glide attitude and trim
- Confirm wind and choose landing site
- Make the plan and activate

#### ② Trouble Checks

F | M | I | P

#### Assess approach

#### ③ Mayday Call

- 7700
- Plus ELT activation

#### Assess approach

#### Passenger Brief

- Nearest habitation
- Remove sharp objects
- Brace position

#### Assess approach

#### Engine Warm

#### ④ Achieve 1500' Area

- Assess the approach and spacing

#### Prelanding Checks

- Instead of Downwind Checks
- F-M-I-M (Master after full flap)

#### ⑤ Achieve 1000' Area

- Start base turn

#### ⑥ Approach

- Can I make the 1/3 aim point?

#### ⑦ Go Around

- Would I have made it?

#### Landing

- PIC responsibility
- Call ATC
- Do not attempt to takeoff again

