

Scenario-based Training Toolbox (continued – sheet 5)

First P - Perceive hazards by defining problems that can create risks with the **PAVE** checklist:

PILOT -- AIRCRAFT -- ENVIRONMENT -- EXTERNAL PRESSURES

The instructor will provide scenario situations for lesson plans considering specific risk element hazards, with some examples listed below. This develops situational awareness where pilot maintains accurate perception of elements.

This is only a partial list of hazards and should be modified for student and instructor, but it provides a starting point for developing risks for scenarios.

PILOT – can be used for ☐ departure ☐ en route ☐ destination

Experience: ☐ overall ☐ recency ☐ currency ☐ flight mission
☐ competency in particular aircraft ☐ competency in type of aircraft
☐ familiarity with systems

Physical condition: ☐ sleep ☐ medications ☐ physical shape
☐ aeromedical ☐ length of flight ☐ fatigue

Emotional condition: ☐ stress ☐ aeromedical

AIRCRAFT – can be used for ☐ preflight ☐ departure ☐ en route ☐ destination

Situation: ☐ rental ☐ builder ☐ owner ☐ borrowed

System Failures: ☐ engine ☐ electrical ☐ structural ☐ controls
☐ communications ☐ flaps

Fuel: ☐ reserves ☐ contamination ☐ type/grade

Performance: ☐ weight ☐ density altitude ☐ takeoff distance ☐ climb rate
☐ angles ☐ crosswinds ☐ tailwinds ☐ obstructions
☐ approach speed

Systems: ☐ GPS ☐ glass cockpit ☐ minimum ☐ unfamiliar

Airworthiness: ☐ current annual ☐ good condition ☐ unknown condition
☐ marginal condition ☐ system inoperable

ENVIRONMENT – can be used for ☐ departure ☐ en route ☐ destination

Airport: ☐ pattern direction ☐ pattern altitude ☐ congestion (high volume)
☐ tower ☐ Unicom ☐ no fuel ☐ alternate ☐ diversion

☐ straight-in verses typical pattern ☐ LAHSO

☐ approach speed deviation ☐ pilot familiarly ☐ radio congestion

Runway: ☐ short field ☐ narrow ☐ dirt ☐ wet ☐ ice

☐ up slope ☐ down slope ☐ unfamiliar

☐ deep valley ☐ on mesa ☐ in congested area ☐ in remote area

☐ crosswinds ☐ tailwinds ☐ high approach ☐ low approach

☐ closed ☐ go around ☐ bounced landing

Weather: ☐ high pressure ☐ low pressure ☐ cold front ☐ warm front

☐ upper winds ☐ surface winds ☐ stability ☐ inversion ☐ fog

☐ ceiling

Visibility: ☐ low lighting ☐ hazy ☐ obscured vision/wind shield problem

☐ about 3 miles ☐ about 1 mile ☐ unknown

Terrain: ☐ flat lands ☐ mountains ☐ trees ☐ water ☐ trees

☐ obstructions/trees/buildings/towers

Passenger: ☐ distractions ☐ illness

EXTERNAL PRESSURES –for ☐ departure ☐ en route ☐ destination

Time: ☐ allowance for delays ☐ diversions ☐ weather coming
☐ racing weather

☐ rental deadline ☐ family commitment

Others expectations: ☐ pilot capability expected ☐ expecting you to arrive

☐ alternate plans ☐ personal equipment