

Simulator Scenarios
Nashua IMC Club
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Scenarios: Unusual Cases

- Visual Climb Over Airport (VCOA)
- ODP with a climb-in-hold
- Unusual hold entries
- Close-in ILS intercept for emergencies
- VOR and LOC BC approaches
- VFR into IMC
- Patterns A and B

Scenarios: Failures

- Vacuum failure
 - Try AHRS failure for glass
- Alternator loss (“generator” in X-Plane)
- Frozen pitot or blocked static
- Partial power loss in a single
 - In a twin: single engine service ceiling over terrain
- Loss of GPS integrity on approach
 - Miss and use ground-based backup with no glass

Scenarios: Extreme Challenges

- Fly a non-precision approach with only CDI and compass
 - No iPad, no altimeter (time+VS), no heading indicator
- Fail all navigation sources and use iPad to find runway
- ILS in 0/0 conditions
- ILS or RNAV with failed engine and high descent rate

More Scenarios

- Shedding load after electrical failure
- Using checklists while flying
- Dedicated simulators for “knobology” practice
 - Both Garmin and Avidyne have good stand-alone simulators

Commercial Resources

- Equus Flight Academy (141 school at Nashua)
- Equipment
 - realsimgear.com - Simulators and Garmin avionics replicas
 - frasca.com – AATDs (\$52,900) and full-motion
 - x-plane.com – \$60 to unlock, Windows/Mac/Linux
 - prepar3d.com – \$60, Windows only
 - flightsimulator.com – \$70, Windows/Xbox/PS5
 - Logitech Saitek – Radio boxes and flight controls