DA vs MDA

DA = Landing is possible (not assured) or go missed right away MDA = Landing is possible (not assured) or level off VDP distance = (MDA - TDZE) / 300

VORs

FROM R -, FROM L +, TO R +, TO L -

2° per dot...200 ft per dot per NM...1 dot, 30 NM then you are 1 NM left or right

Single VOR **air** check +/- **6**°, Single VOR **ground** check +/- **4**°, Dual VOR air check +/- **4**° VOT all signals FROM R360 (from the north), TO R180 (to the south) +/- **4**° 91.171 (d) **D**ate, place (**L**ocation), bearing **E**rror, and **S**ign the aircraft log or other record SLED

1-2-3 Alternate Rule for Filing Flight Plan

For +/- 1 hour, if less than 2000 feet and/or 3 SM visibility then you need an alternate Alternate must have VFR, 600/2 for precision, or 800/2 for non-precision When you **arrive** at the alternate, the minimums can be approach minimums Need to check non standard alternate minimums at alternate...usually if weather not reporting...

<u>IFR Fuel</u> For destination, then alternate, then 45 minutes

Standard Rate Turns

Standard rate is 1 minute 180 deg...3 degree per second If speed increases, then bank angle must increase

Climb Rate

(Ground Speed/60) x ft per NM req = climb rate needed Example: 120 kts is 2 NM/min x 435 ft/NM = 870 ft/min

Standard: is 200 ft/NM to 400 ft but check ODPs/SIDs...if not able req VCOA

§ 91.177 Minimum altitudes for IFR operations

Mountainous area **2,000** feet above the highest obstacle within a horizontal distance of **4** NM Otherwise, **1,000** feet above the highest obstacle within a horizontal distance of **4** NM

§ 91.185 Comm failure

Altitude: Minimum on chart Expected Assigned Route: Assigned Vectored Expected Filed

Nav equipment errors ILS GS error => use LOC mins use MDA...GPS error => exec MAP

§ 91.175 Takeoff and landing under IFR.

(c)(3)(i) The approach light system, except that the pilot may not descend below 100 feet above the touchdown zone elevation using the approach lights as a reference unless the red terminating bars or the red side row bars are also distinctly visible and identifiable.

TDZE not AGL