

Preflight Checklist: Airworthiness

Name/Date: _____

Airplane Documents:

- Airworthiness Certificate (91.203(a)(1))
- Registration Certificate (91.203(a)(2))
Exp.Date: _____
- Operating Handbook (91.9(b))
- Weight and Balance (23.2620)
- External Data Plate (45.11)
- Compass Deviation Card (25.1547)

Pilot Documents:

- Government Issued ID (61.3(2)(i)(ii)(iii))
- Medical (61.3(c)(1))
- Student Pilot License (61.3(a)(1)(i))
- Required Endorsements

Inspections:

- Annual (91.409(a))- 12 calendar months
- VOR (91.171) 30 days if IFR
Most Recent: _____ Next Due: _____
 - 100-hour (91.409(b))
Next Due: _____
Current Tach: _____
Time Remaining: _____
- 50-hour
Next Due: _____
Current Tach: _____
Time Remaining: _____

Tail Number: _____

Inspections Continued:

- Altimeter/Static/Encoder (91.411) 24 Cal Months
Most Recent: _____ Next Due: _____
- Transponder: (91.413)- 24 Cal Months
Most Recent: _____ Next Due: _____
- ELT (91.207)
Battery Replacement - 1 hr cumulative use or 50% life -
Next Due: _____
Inspection - 12 calendar months
Most recent: _____ Next Due: _____
- Airworthiness Directives: _____

Inoperative Equipment:

List Inoperative Equipment/Open Squawks: _____

- Confer with CFI and (91.213) - Not required by:
- 91.205(b)(day VFR).(c)(night VFR).and/or(d)(IFR)
- Equipment List in POH/AFM
- Airworthiness Directives:
- Deactivate and Placard "INOP", OR
 - Removed, control placarded, and MTX logs recorded; new Weight and Balance
- PIC determines aircraft is safe for flight

Preflight Checklist: Performance/Weight and Balance

| Item: | Weight(lbs): | Arm(in): | Moment(lbs/in): |
|--------------|--------------|-----------|-----------------|
| Empty Weight | | | |
| Front Seats | (x) | 37.0 (=) | |
| Rear Seats | (x) | 73.0(=) | |
| Baggage1 | (x) | 95.0(=) | |
| Baggage2 | (x) | 123.0(=) | |
| Fuel | (x) | 48.0.0(=) | |

| | | | |
|---------------------|----------|------------|--|
| Ramp WT (+) = | | CG: | |
| Taxi Fuel (1.4 gal) | -8.4 (x) | 48.0.0(=) | |

| | | | |
|------------------|-------|------------|--|
| TakeOff WT (+) = | | CG: | |
| Fuel Burn | - (x) | 48.0.0(=) | |

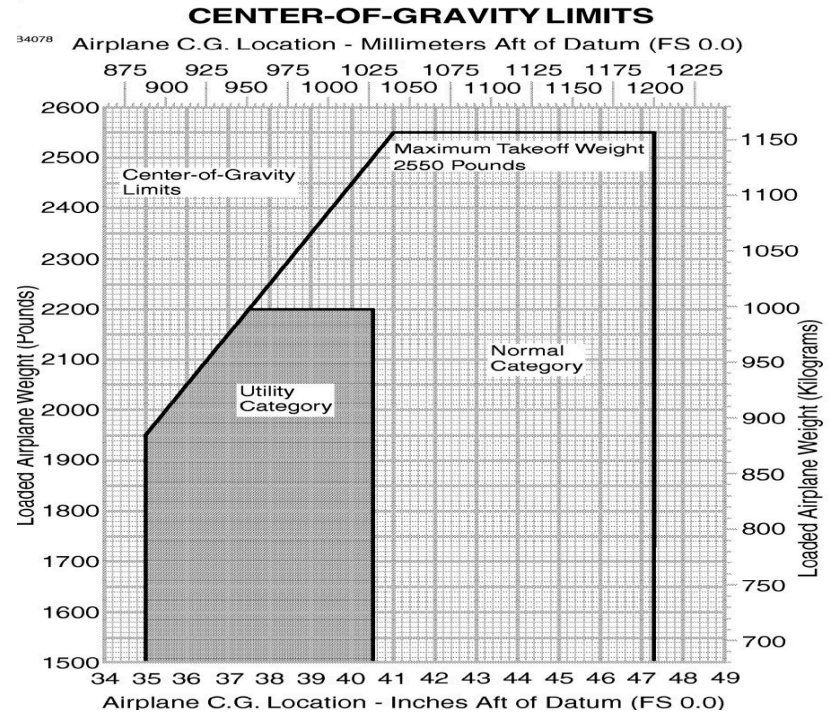
| | | | |
|------------------|--|------------|--|
| Landing WT (+) = | | CG: | |
|------------------|--|------------|--|

Pressure Altitude: $PA = (29.92 - \text{AltSet}) * 1000 + \text{Field Elevation}$
 PA = _____ ft
 Density Altitude: $DA = PA + 120(\text{OAT} - \text{ISA})$
 DA = _____ ft
 Short Field TO Dist: _____ ft Ground Roll: _____ ft
 Short Field LAN Dist: _____ ft Ground Roll: _____ ft
 ***Commercial Students:
 Calculate Va: $\{Va = Va_{@max\ gross\ wt(105\ kts)} / (\text{current wt} / \text{max gross wt } 2550\ \text{lbs})$
 Va = _____ kts
 Pivotal Altitude: $(GS^2 / 11.3)$
 Pivotal Altitude = _____ ft

Student Signature: _____

| N# | Weight(lbs): | Arm(in): | Moment(lbs/in): |
|---------------|--------------|----------|-----------------|
| N1053X | 1681.2 | 40.1 | 67401.2 |
| N5258Y | 1646.1 | 40.2 | 66120.2 |
| N227TW | 1698.2 | 41.5 | 70465.6 |
| N170RB | 1709.8 | 42.4 | 72453.7 |

Max Gross Weight for N170RB 2550 lbs



FlexAir Signature: _____