

Exercise – Input planning and duration

You are preparing for a planning meeting and you are responsible for planning an input to ZM302 and trying to establish the most effective method of running the maintenance that is falling due soon. The maintenance anticipated is shown below. Assume average weekly flying is 10.25 hours per week per aircraft, additional data required is overleaf. Assume that today's date is 1st March, no maintenance is due in the next two weeks.

Diary plot:

March

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29

April

30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				WRI												300	

May

17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4
																12M	

1. What considerations might you make if you wanted to bring all the maintenance together in one input?
2. How long would you plan that input for if so? (What day (above) would the aircraft STS fall due on?)
3. How many flying hours do you 'waste' if you bring the maintenance forward
4. What other options might exist – could the wing root inspection be extended through concession, if so, how might you do this? (Typically 10% overruns are possible)
5. Assuming this is falling due in the middle of summer, where flying demands are typically higher, what impacts might that have on your decision making?

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300/600 SMI (required every 300 flying hours)

Task group	Task hours	Persons on task	Duration	Access constraint
Preparation (A) Sub-total	1.31	3	0.50	
Engine & Controls (B)	29.19	1	30.00	
Propeller (C)	1.36	1	1.40	
Fuselage (D)	8.74	1	9.00	Flight deck access
Fuel System (E)	2.03	1	2.00	Power off
Instrumentation (F)	1.01	1 (B2)	1.00	Power on
Electrical System (G)	3.96	1 (B2)	4.00	Power off
Canopy (H)	2.47	2	1.50	Flight deck access
Wings (I)	5.57	2	3.00	
Horizontal Tail (J)	2.08	1	2.00	
Main Landing Gear (K)	4.90	2	2.50	
Nose Landing Gear (L)	2.33	1	2.50	
Brake System (M)	0.33	1	0.50	
Hydraulic System (N)	1.07	1	1.00	
Audio (O)	0.18	1 (B2)	0.50	Power on
Final Installation & Inspection (P)	8.60	3	3.00	

SMI content	75.14	3 (B1), 1 (B2)	39.00
Anticipated work arising	62.00		21.00
TOTAL	137.14		60.00

Avionic 12-month inspection (required every 365 days)

Task group	Task hours	Persons on task	Duration	Access constraint
Chapter-31 (instruments)	1.25	1	2.00	Flight deck access and power on
Chapter-34 (Avionics and comms)	21.60	1	24.00	

TOTAL	22.85		26.00
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Wing root inspection (required every 50 flying hours)

Task group	Task hours	Persons on task	Duration	Access constraint
Strip, canopy, seats, floor panels	2.50	2	1.50	Power off and Flt deck access
Inspect and refit	4.50	1	4.50	

TOTAL	7.00		6.00
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