


Step 1, Flight Risk Assessment

into this form.

FLIGHT RISK ANALYSIS TOOL



Enter Flight Information

Date:	03/13/2013	Aircraft:	Select One	Aircraft Log Number:	
Patient Pick up:		Patient Drop off:		Total Trip Legs:	
PIC:	Select PIC	SIC:	Select SIC/ FO	Total Trip Score:	0

Pilot Qualifications/Experience/Flight and Duty Time

1	Captain with less than 500 hours in Type	4	<input type="checkbox"/>
2	Captain with 500 hours or greater in Type	2	<input type="checkbox"/>
3	SIC with less then 300 hours in type	4	<input type="checkbox"/>
4	SIC with more then 300 hours in type	2	<input type="checkbox"/>
5	PIC or SIC > 2 years of EMS experience	-2	<input type="checkbox"/>
6	PIC conducting I.O.E Training	4	<input type="checkbox"/>
Total Factor Score:			0

Human Factors

7	Slept 10 or more hours in previous rest period	-2	<input type="checkbox"/>
8	Is the Flight Scheduled to depart between the hours of 22:00 and 6:00 AM	3	<input type="checkbox"/>
9	Second Consecutive Night Flight Arriving Past 1 AM	5	<input type="checkbox"/>
10	Flight Time (Between 1 and 4 hours in a duty day)	1	<input type="checkbox"/>
11	Flight Time (Between 4 and 8 hours in a duty day)	2	<input type="checkbox"/>
12	Flight Time (Greater then 8 hours in a duty day)	3	<input type="checkbox"/>
13	Duty Day: (Greater then 10 hours)	3	<input type="checkbox"/>
14	Duty Day: (Less then 10 hours)	2	<input type="checkbox"/>
Total Factor Score:			0

Operating Environment (Enroute, Terminal)

15	Night Operations	3	<input type="checkbox"/>
16	Mountainous Area 3000 foot change within 10 miles (ICAO)	5	<input type="checkbox"/>
17	Airport Elevation 5000 Ft or greater	3	<input type="checkbox"/>
18	Uncontrolled Field (No Tower) Control Tower not operational at ETA or ETD	3	<input type="checkbox"/>
19	Operational VOR/GPS/LOC/ADF (Best approach W/O Vertical Guidance)	3	<input type="checkbox"/>
20	Circling Approach (best available approach)	5	<input type="checkbox"/>

Operating Environment (Terminal Weather)

21	Clouds 2000FT or less	3	<input type="checkbox"/>
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Fill here

Flight values add Up automatically

Step 2, Medical Risk Assessment

Fill here

MEDICAL FLIGHT RISK ASSESSMENT TOOL

Enter Flight Information

Date: 09/18/2013	Trip Number: <input style="border: 1px solid red;" type="text"/>	Ora Score (Pilot): <input style="border: 1px solid lightblue;" type="text"/>	
Base: Select One	Initials: <input style="border: 1px solid red;" type="text"/>	Final Ora Score: <input style="border: 1px solid lightblue;" type="text" value="0"/>	

Medical Crew Fatigue Awareness

1 Anticipated Duty Time <12 Hrs.	1	<input type="checkbox"/>
2 Anticipated Duty Time >16 Hrs. - 2 Crew Members	2	<input type="checkbox"/>
3 Anticipated Duty Time >16 Hrs. - 3 Crew Members	1	<input type="checkbox"/>
4 Full Team with 2 Passengers	3	<input type="checkbox"/>
5 3 Passengers	3	<input type="checkbox"/>
Total Factor Score:		0

Medical Decision-Ability to Transport Patient

6 Advanced Life Support	1	<input type="checkbox"/>
7 Critical Care	2	<input type="checkbox"/>
Total Factor Score:		0

Operating Environment

8 Intubated Patient < 48 Hrs. vented-RT	3	<input type="checkbox"/>
9 Intubated Patient < 48 Hrs. vented-APM	2	<input type="checkbox"/>
10 Extensive Pervious Medical History	2	<input type="checkbox"/>
11 Patient on 1 or more IV Medication	1	<input type="checkbox"/>
12 Recent MI <24 Hrs.	2	<input type="checkbox"/>
13 Recent CVA with Low GCS	3	<input type="checkbox"/>
14 Trauma Extremity Only	2	<input type="checkbox"/>
15 Trauma Thorax	2	<input type="checkbox"/>
16 Trauma Head < 2 Weeks, GSC<8	3	<input type="checkbox"/>
17 Polytrauma	3	<input type="checkbox"/>
18 Trauma Head < 2 Weeks, GSC>8	1	<input type="checkbox"/>
Total Factor Score:		0

Air Medical Experience

20 Reva RN < 6 Months	2	<input type="checkbox"/>
21 Reva PM < 6 Months	2	<input type="checkbox"/>
22 Reva RT < 6 Months	2	<input type="checkbox"/>
23 Reva MD < 6 Months	2	<input type="checkbox"/>
24 Reva RN < 18 Months	1	<input type="checkbox"/>
25 Reva PM < 18 Months	1	<input type="checkbox"/>
26 Reva RT < 18 Months	1	<input type="checkbox"/>
27 Reva MD < 18 Months	1	<input type="checkbox"/>

Flight values add Up automatically

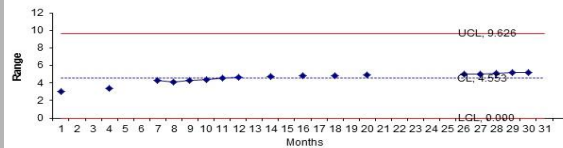
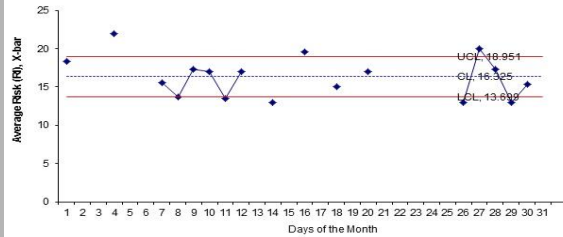
Step 3, Risk Control and Analysis



Control Chart for Trend Analysis and Risk Index Deviation

Monthly Flight Risk Assessment
1/1/2013

Quality Characteristic: Average Risk (RI), X-bar
Sample Size, n: 5
k: 3



Statistics from Data Table

R-bar: 4.553
Process Mean, μ -hat: 16.325
Process St.Dev., σ -hat: 1.957
 $\sigma_{x\text{-bar}}$: 0.875

Process Capability

Upper Spec Limit, USL: 30
Lower Spec Limit, LSL: 0
 C_p : 2.555
CPU: 2.329
CPL: 2.780
 C_{pk} : 2.329
Percent Yield: 100.00%

Control Limits for X-bar Chart

$CL_{x\text{-bar}}$: 16.325
 $UCL_{x\text{-bar}}$: 18.951 $CL + k\sigma_{x\text{-bar}}$
 $LCL_{x\text{-bar}}$: 13.699 $CL - k\sigma_{x\text{-bar}}$
 α : 0.0027
ARL: 370.4 samples

Control Limits for R Chart

CL_R : 4.553
 UCL_R : 9.626
 LCL_R : 0.000

Data Table

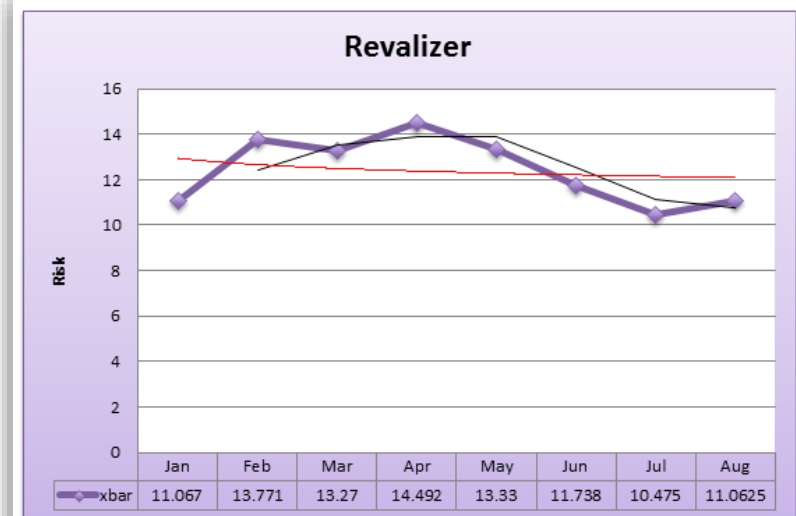
Sample	X-bar	Range	CL	UCL	LCL	CL	UCL	LCL
1	18.3	3	16.325	18.951	13.699	4.553	9.626	0.000
2			16.325	18.951	13.699	4.553	9.626	0.000
3			16.325	18.951	13.699	4.553	9.626	0.000
4	22	3.4	16.325	18.951	13.699	4.553	9.626	0.000
5			16.325	18.951	13.699	4.553	9.626	0.000
6			16.325	18.951	13.699	4.553	9.626	0.000
7	15.5	4.3	16.325	18.951	13.699	4.553	9.626	0.000
8	13.66	4.114	16.325	18.951	13.699	4.553	9.626	0.000
9	17.333	4.273	16.325	18.951	13.699	4.553	9.626	0.000
10	17	4.404	16.325	18.951	13.699	4.553	9.626	0.000
11	13.5	4.516	16.325	18.951	13.699	4.553	9.626	0.000
12	17	4.615	16.325	18.951	13.699	4.553	9.626	0.000
13			16.325	18.951	13.699	4.553	9.626	0.000
14	13	4.704	16.325	18.951	13.699	4.553	9.626	0.000
15			16.325	18.951	13.699	4.553	9.626	0.000
16	19.6	4.784	16.325	18.951	13.699	4.553	9.626	0.000
17			16.325	18.951	13.699	4.553	9.626	0.000
18	15	4.858	16.325	18.951	13.699	4.553	9.626	0.000
19			16.325	18.951	13.699	4.553	9.626	0.000
20	17	4.925	16.325	18.951	13.699	4.553	9.626	0.000
21			16.325	18.951	13.699	4.553	9.626	0.000
22			16.325	18.951	13.699	4.553	9.626	0.000
23			16.325	18.951	13.699	4.553	9.626	0.000
24			16.325	18.951	13.699	4.553	9.626	0.000
25			16.325	18.951	13.699	4.553	9.626	0.000
26	13	4.989	16.325	18.951	13.699	4.553	9.626	0.000
27	20	5.048	16.325	18.951	13.699	4.553	9.626	0.000
28	17.3	5.103	16.325	18.951	13.699	4.553	9.626	0.000
29	13	5.156	16.325	18.951	13.699	4.553	9.626	0.000
30	15.33	5.205	16.325	18.951	13.699	4.553	9.626	0.000
31			16.325	18.951	13.699	4.553	9.626	0.000

Trend Analysis and Risk Index

Step 4, Safety Analyzer

The Revalizer:

- Shows the aviation risk for that month.
- Shows the medical risk for that month.
- Publishes a safety condition based on the level of combined risk.
- Shows current combined risk for the company. Calculates safety reporting and Irregularity reports into final risk.



Aviation Safety Number **13.91325**

Medical Safety Number **7.058333**

Risk Index **Low-Moderate**

Current Safety Number **11.49**



Revalizer Key

Aviation Safety Number is the average risk number generated from the FRAT

Medical Safety Number is the average risk number generated by the Medical FRAT

Risk Index is the level of risk as determined by the Revalizer

Current Safety Number is the total Safety risk for entire company

Low Risk 1 - 9, Low-Moderate 10 - 14, Moderate 15 - 22, Upper-Moderate 23 - 27, High 28 - 30

Why Reva?



Attributes:

- Our safety is no secret. Full transparency on all SMS data.
- Proactive safety management and quality assurance is a way of life.
- Our Kaizen Philosophy ensures that our SMS is continuously evolving and improving.
- Numerous policy improvements as a result of effective safety reporting.

