UNIVERSIDAD TECNOLÓGICA DE
SAN LUIS RIO COLORADO

PRACTICA 10

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ING. EN DESARROLLO Y GESTIÓN DE SOFTWARE

San Luis Rio Colorado, Sonora

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	RISK AREA	KIND OF RISK	ROLE	Po	Mf	RISK SCALE	PLAN OF PREVENTION	ACTION PLAN	COST
4	HUMAN RESOURCES RISK	NON-ATTENDANCE	PROGRAMMER	2	4	8	Attendance bonus	Delegate activities to the analyst	$15,000
11	HUMAN RESOURCES RISK	SABOTAGE		2	4	8	Responsibility matrix	Delegate role activities to another role	$30,000
12	HUMAN RESOURCES RISK	LACK OF KNOWLEDGE		3	3	9	Trainings	Hire an expert to train in whatever is required	$ 15,000.00
23	FINANCIAL RISK	INCREASE IN TAXES		3	4	12	Fund to mitigate inflation and tax increase	Adjust costs	$50,000
29	TECHNICAL RISK	MISUSE OF TECHNOLOGIES		3	3	9	Deliver regulations to employees to prevent misuse of equipment	Punish the misuse of the development team to those who do not comply with the established agreements	$5,000
31	POLITICAL RISK	CHANGE OF SCOPE AND OBJECTIVES		2	4	8	Validate during the analysis stage that the scope and	Sign agreements to avoid change of scope and	$15,000

							objectives are correct with the client.	objectives in the development stage	
38	DEVELOPMENT RISK	HIDDEN FAILURES IN PROGRAMMING CODE AND DATA BASES			2	4	8	Deliver the complete documentation to the database team	Hire an expert who supports the database	$10,000
40	DEVELOPMENT RISK	IMPLEMENTATION FAILURES			3	4	12	Generate the necessary documentation to correctly carry out the implementation	Designate the developers in the implementation	$30,000
44	HUMAN RESOURCES RISK	MEDIOCRE ANALYSIS			2	4	8	Verify with the clerk and with the administrator the generated S.R.S	Hire a senior analyst for support	$20,000
								BUDGET	190,000	

RIESGO

RIESGO ES LA PROBABILIDAD DE UN EVENTO INDESEABLE Y EL EFECTO DE LA CONSECUENCIA DE DICHO EVENTO

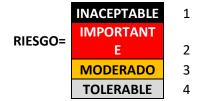LA FORMULA MAS SIMPLE PARA SU CALCULO ES LA SIGUIENTE

R = Po x Mf

Po = PROBABILIDAD DE OCURRENCIA
Mf = MAGNITUD DEL DAÑO (IMPACTO DEL EVENTO)
PARA CALCULAR LOS VALORES SE DEBERÁN DE TOMAR LAS SIGUIENTES ESCALAS

ESCALA	PO	MF
1	POCO PROBABLE	LEVE
2	PROBABLE	MODERADO
3	FRECUENTE	ALTO
4	MUY FRECUENTE	CATASTROFICO

PO

4	4	8	12	16
3	3	6	9	12
2	2	4	6	8
1	1	2	3	4
	1	**2**	**3**	**4**	**MF**

RIESGO=

INACEPTABLE	1
IMPORTANTE	2
MODERADO	3
TOLERABLE	4

	RISK AREA	KIND OF RISK	ROLE	Po	Mf	RISK SCALE	PLAN OF PREVENTION	ACTION PLAN	COST
1	HUMAN RESOURCES RISK	NON-ATTENDANCE	ADMINISTRATOR	1	4	4	Attendance bonus	Delegate activities to the analyst	
2	HUMAN RESOURCES RISK	NON-ATTENDANCE	ANALYST	1	3	3	Attendance bonus	Delegate activities to the administrator	
3	HUMAN RESOURCES RISK	NON-ATTENDANCE	DESIGNER	2	2	4	Attendance bonus	Delegate activities to the tester	
4	HUMAN RESOURCES RISK	NON-ATTENDANCE	PROGRAMMER	2	4	8	Attendance bonus	Delegate activities to the analyst	$15,000
5	HUMAN RESOURCES RISK	NON-ATTENDANCE	DATA BASE	1	4	4	Attendance bonus	Delegate activities to the programmer	
6	HUMAN RESOURCES RISK	NON-ATTENDANCE	TESTER	1	2	2	Attendance bonus	Delegate activities to the analyst	
7	HUMAN RESOURCES RISK	NON-ATTENDANCE	CLERK	1	1	1	Attendance bonus	Delegate activities to the tester	
8	HUMAN RESOURCES RISK	NON-ATTENDANCE	TECHNICAL SUPPORT	1	3	3	Attendance bonus	Delegate activities to the clerk	
9	HUMAN RESOURCES RISK	NON-ATTENDANCE	ADMINISTRATIVES	3	2	6	Attendance bonus	Delegate activities to the analyst	
10	HUMAN RESOURCES RISK	CONFLICTS		2	3	6	Work meetings and problem solving	Emergency meeting for conflict resolution	
11	HUMAN RESOURCES RISK	SABOTAGE		2	4	8	Responsibility matrix	Delegate role activities to another role	$30,000
12	HUMAN RESOURCES RISK	LACK OF KNOWLEDGE		3	3	9	Trainings	Hire an expert to train in whatever is required	$ 15,000.00
13	HUMAN RESOURCES RISK	INFORMATION LEAK		1	4	4	Confidentiality agreements	Take legal action	
14	HUMAN RESOURCES RISK	INTERNAL ROBBERY		1	4	4	Hire someone new team members	Take legal action	
15	HUMAN RESOURCES RISK	LOW PERFORMANCE		2	3	6	Compromise agreements with the staff	Use coaching	
16	FACILITIES RISK	FIRE		1	4	4	Safety signs and fire extinguishers	Follow legal measures	
17	FACILITIES RISK	EARTHQUAKE		1	4	4	Safety signs and training videos	In case of damage to the workspace, relocate the office	
18	FACILITIES RISK	EXTERNAL ROBBERY		1	4	4	Safety videos	Increase surveillance and security devices in case the company is at risk of the incident happening again	
19	FACILITIES RISK	CYCLONE		1	4	4	Safety signs and training videos	Evacuate and follow the measures established by the government	

20	FACILITIES RISK	OBSOLET HARDWARE		2	3	6	Validate that the hardware that was purchased is what is needed	Buy the required hardware	
21	FACILITIES RISK	DEFECTIVE FACILITIES		1	3	3	Check the facilities	Repair the facilities before starting the development of the project	
22	FINANCIAL RISK	MONEY TRAFFIC OR THEFT		1	4	4	Monetary penalties	Take legal action	
23	FINANCIAL RISK	INCREASE IN TAXES		3	4	12	Fund to mitigate inflation and tax increase	Adjust costs	$50,000
24	FINANCIAL RISK	BREACH OF PAYMENTS		1	4	4	Check total budget	Remuneration of 3% for the breach of the company for all workers	
25	FINANCIAL RISK	DEVALUATION OR INFLATION OF THE CURRENCY		2	3	6	Comply with the times established in the schedule	Adjust the salary of the employees to the percentage of devaluation that is had	
26	TECHNICAL RISK	HACKING ATTEMPT		1	3	3	Follow the measures established for the development	Increase security so that another incident does not occur again	
27	TECHNICAL RISK	LICENSES NOT AUTHORIZED		2	3	6	Verify that the licenses that are necessary for development have been acquired	Pay the fine to the company and acquire the license	
28	TECHNICAL RISK	NO TECHNOLOGY PLAN		1	3	3	Verify that the technology plan is correct and elaborated	Prepare the technology plan based on the project	
29	TECHNICAL RISK	MISUSE OF TECHNOLOGIES		3	3	9	Deliver regulations to employees to prevent misuse of equipment	Punish the misuse of the development team to those who do not comply with the established agreements	$5,000
30	TECHNICAL RISK	EQUIPMENT FAILURE		1	3	3	Verify that the purchased equipment is in the best conditions	Make the necessary repairs and if it is not possible to acquire new equipment	
31	POLITICAL RISK	CHANGE OF SCOPE AND OBJECTIVES		2	4	8	Validate during the analysis stage that the scope and objectives are correct with the client.	Sign agreements to avoid change of scope and objectives in the development stage	$15,000
32	POLITICAL RISK	STAFF STRIKE		1	3	3	Sign agreements to avoid change of scope and objectives in the development stage	Take legal action	
33	POLITICAL RISK	WAR		1	4	4	Government training videos	Follow the instructions indicated by the government	

#	Risk Type	Risk		P	I	Score	Prevention	Mitigation	Budget
34	POLITICAL RISK	EXPROPRIATIONS		1	4	4	Work following the regulations and laws established by the government	Follow government instructions	
35	POLITICAL RISK	EXTERNAL SANCTIONS		1	4	4	Work following the regulations and laws established by the government	Follow government instructions	
36	DEVELOPMENT RISK	PLANNING MISTAKES (PROCESSES & TIMES)		2	3	6	Validate all documentation generated for planning	Redo the planning	
37	DEVELOPMENT RISK	DISABLED ANALYSIS		1	4	4	Keep the analytics team or analyst motivated	Find new staff and delegate activities to the administrator	
38	DEVELOPMENT RISK	HIDDEN FAILURES IN PROGRAMMING CODE AND DATA BASES		2	4	8	Deliver the complete documentation to the database team	Hire an expert who supports the database	$10,000
39	DEVELOPMENT RISK	TESTING FAILURES		2	3	6	Have very well established functional and non-functional requirements	Document and correct testing errors	
40	DEVELOPMENT RISK	IMPLEMENTATION FAILURES		3	4	12	Generate the necessary documentation to correctly carry out the implementation	Designate the developers in the implementation	$30,000
41	DEVELOPMENT RISK	FAILURES IN CONTRACT		1	4	4	Legally verify the contract presented	Legally resolve any discrepancy or conflict resulting from the contract	
42	TECHNICAL RISK	INCORRECT TIMES IN SCHEDULES		1	3	3	Check the times established in the schedule	Hire more staff so that the development of the software is in the established times	
43	HUMAN RESOURCES RISK	LACK OF KNOWLEDGE IN THE METHODOLOGY		2	3	6	Interview staff before being hired	Training videos	
44	HUMAN RESOURCES RISK	MEDIOCRE ANALYSIS		2	4	8	Verify with the clerk and with the administrator the generated S.R.S	Hire a senior analyst for support	$20,000
45	HUMAN RESOURCES RISK	LACK OF ORGANIZATION IN THE DEVELOPMENT TEAM		2	3	6	Training videos and supervision	Apply company regulations	
46	HUMAN RESOURCES RISK	INSUFFICIENT DEVELOPMENT TEAM		1	3	3	Hire the required members	Hire more trained staff	
47	DEVELOPMENT RISK	SUPPLIER FAILURES		2	3	6	Compromise agreements	Take legal action	
								BUDGET	$190,000