



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project(Spring 2021)

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Section

Master

Date

Thursday

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Course Code

(PMG510)

Project Risk Management

Instructions:

- اخر موعد للتسليم هو يوم الخميس 2021-05-20 في تمام الساعة ٩ مساءً.
- الإجابة متاحة باللغة الإنجليزية أو اللغة العربية مع مراعاة أن تكون المصطلحات العلمية باللغة الانجليزية.
- يتم تسليم المشروع في صيغة ملف pdf . مع الالتزام نموذج الجامعة ولن تقبل أي مستندات أخرى.
- يجب مراعاة أقسام البحث الرئيسية (مقدمة Introduction، دراسات علمية سابقة Literature Review، طريقة البحث Methodology، النتائج والمناقشة Results and Discussion ، وأخيرا المراجع References . وان كان هناك ملحقات Appendices يتم إضافتها)
- يجب الالتزام بـ Theme موحد كما يلي:
- حجم الخط 12.
- نوع الخط Arial.
- لون الخط أسود.
- المسافة بين الأسطر 1.5 line spacing
- عدد صفحات البحث (لا يقل عن ثلاث صفحات ولا يزيد عن ست صفحات).

Instructor's Name: Eng. Mosaab M. Hamed

Project:

Risk Identification and Analysis (Based on the project you chose in APM)

The objective of this report is to identify project risks, prepare a risk probability matrix, and carry out an analysis of selected risks. Referring to the project you select in **Advanced projects management APM course**, your task is to prepare a risk management plan that identifies potential risks in **each stage of the project** and identify risk management strategies.

From the course content and readings, you know that the overall purpose of risk planning is to anticipate possible risk events and be ready to take appropriate action when risk events occur—to eliminate or reduce negative impacts on the project.

You may wish to begin this exercise with a brainstorming about potential risks to get candidate risks “on the table” for consideration. And then identify and refine that wording for risks that have some realistic chance of occurring in this project. For example, potential weather problems present a real obstacle to completing field data collection by the planned completion date. It is also an issue that the project manager will ultimately have to plan for, as opposed to other issues such as a major disaster (e.g., your office burning down), is not a high-enough probability event that requires much time in planning. As described below, you will select several of the identified risks and carry out a risk analysis.

You will use the distilled list of risks to make a risk probability/impact matrix. The matrix will have at least three categories (high/medium/low) for probability and impact.

Remember that it is important to name risks effectively—use words that describe the risk event and point to the impact on the project (e.g., “injury of field technician disrupts data installation work”).

After completion of the risk matrix, document a risk analysis for the selected risks. This detailed documentation for that selected risk will include:

- a description of the risk and potential impacts (schedule, quality of work, cost, etc.) on the project.
- indicators or triggers that would be monitored to help identify the risk as early as possible.
- specific risk response strategies to take.

Using probability and impact matrix calculate the Expected Monetary Value (EMV) for all risks that have the impact in terms of cost \$\$.

Best of luck...

المشروع:

التعرف على المخاطر وتحليلها (بحث مبني على مشروعك الذي اخترته في مادة ادارة المشاريع المتقدمة)

الغرض من هذا التقرير هو التعرف على المخاطر المحيطة بكل مرحلة من مراحل المشروع, تحضير مصفوفة احتمالية المخاطر ومن ثم القيام بالتحليل لهذه المخاطر المختارة. مهمتك هي تحضير خطة متكاملة لإدارة المخاطر تشمل التعريف بالمخاطر المحتملة التي تحيط بكل مرحلة من مراحل مشروعك (نفس المشروع الذي اخترته في مادة إدارة المشاريع المتقدمة Advanced project management). ومن ثم القيام بتحديد استراتيجيات إدارة المخاطر المناسبة لكل خطر على حدة.

من محتويات المقرر والمصادر الأخرى المتاحة أصبحت تعلم الان أن الغرض العام لمرحلة التخطيط للمخاطر هي توقع أحداث المخاطر المحتملة والتجهز لاتخاذ ردة الفعل المناسبة عند وقوع الخطر – لمنع أو تقليل الاثار السلبية على المشروع.

قد تحبذ بداية هذا البحث بعصف ذهني عن ماهية المخاطر التي قد تحيط بكل مرحلة من مراحل مشروعك, وذلك للحصول على قائمة بتلك المخاطر. ومن ثم تحديد وتصفية هذه القائمة للوصول إلى قائمة مختصرة بالمخاطر التي لها فرصة واقعية أكبر في الحدوث. على سبيل المثال: المشاكل الجوية المتوقعة والتي تمثل عقبة حقيقية أمام اكتمال جمع البيانات من المواقع في أو قبل الوقت المحدد، هذه تعتبر مشكلة على مدير المشاريع أن يضعها في الحسبان. من ناحية أخرى، فإن المخاطر غير الواقعية مثل الكوارث الطبيعية والأعاصير (تلك التي تسبب حريقاً بمكتبك وفقدان الأوراق المهمة) ليست لها احتمالية وقوع عالية وبالتالي لاتستدعي تضيق الكثير من الوقت في التخطيط لها. كما سيتبين لك، ستقوم باختيار عدة مخاطر من تلك التي قمت بالتعرف عليها لتحليلها.

ستقوم باستخدام هذه القائمة المختصرة لعمل مصفوفة المخاطر (الاحتمالية/الأثر). المصفوفة ستحتوي على الأقل على ثلاث تصنيفات (عالي/متوسط/منخفض) للإحتمالية والأثر.

لاتنس استخدام أسماء تصف طبيعة المخاطر بصورة فعالة – قم باستخدام كلمات تصف الحادثة الخطرة وتشير الى أثرها على المشروع (مثل: إصابة أحد الفنيين في الموقع مما يؤثر على أعمال التركيب).

بعد انتهاءك من مصفوفة المخاطر، قم بتوثيق تحليلك للمخاطر المختارة. هذا التسجيل المفصل للمخاطر يجب أن يتضمن:

- وصف للخطر واثاره المحتملة (الجدولة، جودة العمل، التكلفة، الخ)
- المؤشرات والمحفزات التي يجب مراقبتها للمساعدة في التعرف على هذا الخطر قبل وقوعه
- تفصيل للاستجابة المقترحة للتصدي لهذا الخطر

باستخدام مصفوفة الاحتمالات والتأثير ، احسب القيمة النقدية المتوقعة (EMV) لجميع المخاطر التي لها تأثير من حيث التكلفة \$\$\$.

مع تمنياتي بالتوفيق..

Risk of COVID-19 Lockdown

Introduction

After a year of lockdown and all restrictions that we had suffered from the bigging of 2020. We need to travel and go see the world to retrieve or freedom again. In this research I'm going to write about the risks which may we face in travel. And what we should do? How to response to these risks? What are our plans.

In the phase of planning for the trip for two people, we struggled a lot about where to go? When to go? And how to provide and manage the budget. We are going to find tourism company to help us.

Methodology

We will go through a process like 8Rs and 4Ts, to help ourselves finding the risk's probabilities and its impacts. Brainstorming is the first step to identify all the possible risks. We will make a list of them.

Table 1

No.	List of Risks
1	Choose the wrong time to travel. (winter in cold place).
2	Choose unknown tourism company. (it has no history).
3	Increase the level of travel pleasures. (cost a lot).
4	Bad airplane company. (tired in travel time).
5	Choose undetailed program. (got lost in a foreign country).

6	Not vaccinated against COVID-19. (not allowed to travel).
7	Bad hotels. (cost of changing).
8	Weather crisis, wars, airplane accident. (death).
9	Lockdowns due new type of viruses. (cost +).
10	Barriers of language and culture. (no contact with others).
11	Get boring, unentertained enough. (cost +).

Now we have a list of risks, we will make a risks matrix (determine the probability and impact of each risk), which will go after that to risk register. (low = 0 to 0.29, medium = 0.3 to 0.69, high = 0.7 to 1).

Table 2

No.	List of Risks	Probability	impact
1	Choose the wrong time to travel. (winter in cold area).	0.2	0.8
2	Choose low cost tourism company. (it has no history = no experience).	0.4	0.2
3	Increase the cost of travel pleasures. (cost a lot).	0.3	0.3
4	Bad airline company. (tired in travel time).	0.4	0.8
5	undetailed program. (got lost in a foreign country).	0.2	0.8
6	Not vaccinated against COVID-19. (not allowed to travel).	0.8	0.8

7	Bad hotels. (cost of changing).	0.8	0.4
8	Weather crisis, wars, airplane accident. (death).	0.1	0.9
9	Lockdowns due new type of viruses. (cost +).	0.1	0.2
10	Barriers of language and culture. (no contact with others).	0.1	0.1
11	Get boring, unentertained enough. (cost +).	0.4	0.8

After collecting and evaluating the risks, it time to evaluate the severity to start thinking about the response plans for each risk and try to mitigate the impact. For calculating the severity, we used Risks Matrix and Bow-Tie to find the response plan.

Figure1

Probability	0.7-1	high	high	medium
	0.3-0.69	high	medium	low
	0-0.29	medium	low	low
		0.7-1	0.3-0.69	0-0.29
		Impact		

Figure2

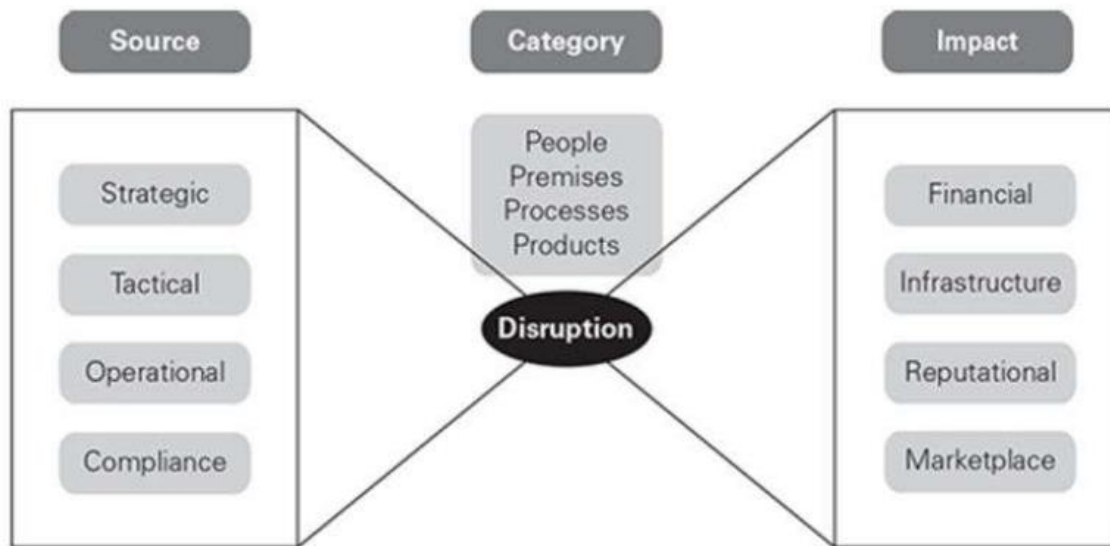


Table 3

No.	List of Risks	Probability	impact	Severity	Response plan	Mitigate Action
1	Choose the wrong time to travel. (winter in cold place).	0.2	0.8	Medium	Decide the time of travel 3 months before takeoff.	In bad time there are only few travelers so, it is good to ask for discounts & hotels upgrades.
2	Choose low.Cost tourism. (it has no history = no experience).	0.4	0.2	Low	Look at their program and services. If it is good move on, If	Try to take discount or extra services.

					not find another.	
3	Increase the level of travel pleasures. (cost a lot).	0.3	0.3	Medium	Make all the reservations at home before takeoff, to ensure that the main parts of the trip are in a safe side.	Minimize the program by cancelation of some reservations and go to local restaurants.
4	Bad airline company. (tired in travel time).	0.4	0.8	High	Decide which company you want at home, search for good deals.	Choose chair that had lowest probability of making noises.
5	undetailed program. (got lost in a foreign country).	0.2	0.8	Medium	Make sure of every place you will go, google it, and take a bill or tickets that you can find time, location and seat on it.	Go to places where you find many people and well secured to ask them for help. Don't ever go back streets.
6	Not vaccinated against COVID-19. (not allowed to travel).	0.8	0.8	High	You should plan your date to get vaccinated before the date of vacation.	Sell you tickets and/or entire/some program to a friend.
7	Bad hotels. (cost of changing).	0.8	0.4	High	Read the comments in booking before register.	Contact with tourism company to solve this problem.
8	Weather crisis, wars, airplane	0.1	0.9	Medium	-	-

	accident. (death).					
9	Lockdowns due new type of viruses. (cost +).	0.1	0.2	Low	Save some money for emergency.	Contact your government to take you home.
10	Barriers of language and culture. (no contact with others).	0.1	0.1	Low	Learn some sentences of this language & read about culture. Or use English.	Download apps that helps you to contact with people.
11	Get poring, unentertained enough. (cost +).	0.4	0.8	High	Choose places in your mind that you will go to if you have time.	Go to nearest marked place. (castle, lack, square, park.)

Results

Here we are going to calculate the EMV cost for our trip. All the numbers you are going to see are not exact cost but it was evaluated based on experience. The total potential impact on the plan is 15700 SR, while the contingency cost is 7150 SR.

Table 4

No.	Risk	Probability	Impact cost SR	Risk contingency
1	Choose the wrong time to travel. (winter in cold place).	0.2	2000	400
2	Choose unknown tourism company. (it has no history = no experience).	0.4	1000	400
3	Increase the level of	0.3	3000	900

	travel pleasures. (cost a lot).			
4	Bad airplane company. (tired in travel time).	0.4	100	40
5	Choose undetailed program. (got lost in a foreign country).	0.2	2500	500
6	Not vaccinated against COVID-19. (not allowed to travel).	0.8	4000	3200
7	Bad hotels. (cost of changing).	0.8	500	400
8	Weather crisis, wars, airplane accident. (death).	0.1	0	0
9	Lockdowns due new type of viruses. (cost +).	0.1	1000	100
10	Barriers of language and culture. (no contact with others).	0.1	100	10
11	Get boring, unentertained enough. (cost +).	0.4	1000	1000
	TOTAL		15700	7150

Discussion

In (Table 3) we can see the result of reposing plan and how to mitigate the risk. It is important to note that we should be aware of all risks but shouldn't waste the time on risks with green color, it is better to focus on orange and red risks because they have higher probability and huge impact.

In (Table 4) we can see the result of the risks cost on the budget. The higher number was for not take a vaccine on time, so it has the higher priority. There are some risks that you should be careful from them like choose unknown tourism company, the level of travel pleasures and choosing Bad hotels. They will drag your money out of the pocket.

References

