



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

Student Name	وسام كامل داود عز الدين	اسم الطالب
Students I.D	2021202154	الرقم الجامعي

Section

Master

Date

Thursday

18 / 03 / 2021.

Course Code

(PMG510)

Project Risk Management

Instructions:

- آخر موعد للتسليم هو يوم السبت 2021-05-08 في تمام الساعة 9 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، وأخيراً 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 line spacing 1.5
- 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 **the selected 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 stage. 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 بالمرحلة التي تختارها المرحلة من مراحل مشروعك (نفس المرحلة التي اخترت التطرق لها في مشروعك لمادة إدارة المشاريع المتقدمة Advanced project management) حيث أن مهمتك هي تحضير خطة متكاملة لإدارة المخاطر تشمل التعريف بالمخاطر المحتملة التي تحيط بتلك المرحلة وتحضير مصفوفة احتمالية المخاطر ومن ثم القيام بالتحليل لهذه المخاطر المختارة وتحديد استراتيجيات ادارة 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 ردّة الفعل المناسبة عند وقوع الخطر – لمنع أو تقليل الاثار السلبية على المشروع.

قد تحبّذ بداية هذا البحث بعصف ذهني عن ماهية المخاطر التي قد تحيط بتلك المرحلة من مراحل مشروعك, وذلك للحصول على قائمة بتلك المخاطر. ومن ثمّ 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..

Introduction:

The Main topic of this paper is defining the controlling the Risk for the applying 5S project inside the organization.

One of the main department inside any hospital or medical centers or any healthcare providers sectors is the emergency department , in emergency department first aid of patient comes to emergency department ethers by himself or by Ambulance , day by day we noticed that the patient are increased rapidly and become more difficult and provide healthcare on time for all patient, for that reason for 5S Methodology is to make the emergency department more efficient is to apply one of the lean project is called 5S project , 5S project is the methodology of 5 main steps which is SORT , SET In ORDER , SHINE , STANDARIZE , SUSTAIN , In Sort: Separate needed items from unneeded items by sorting through items and disposing of rarely used items using red tagging. In Straighten/Set in order: Arrange the remaining items to be most efficient and accessible following the process flow by organizing and labeling item locations. In Shine/Scrub: Maintain the work area for the already sorted and set in order items by cleaning the work area. In Standardize: Ensure consistency across all users by developing procedures to maintain and monitor the first three S's. In Sustain: Maintain and improve the outcome from sort, straighten/set in order, shine/scrub and standardize.

Methodology

In this research we will use 8Rs and 4Ts to find the risks probabilities and impact, Brainstorming is the first step to identify the possible risks, the list of the Risks as follows in the below table 1 :

Table1:

No.	List of the Risk
Risk 1	ER department refuse the 5S project idea.
Risk 2	People changed from ER department.
Risk 3	Some staff in ER is not implement 5S in the department
Risk 4	Staff in ER is not using 5S in correct way
Risk 5	Some nurses are new no idea about 5S
Risk 6	The ER rooms transferred to another area
Risk 7	Construction work around ER department

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).

Table2:

No.	List of Risks	Probability	impact
Risk 1	ER department refuse the 5S project idea.	0.7	1
Risk 2	People changed from ER department.	0.3	0.8
Risk 3	Some staff in ER is not implement 5S in the department	0.3	0.8
Risk 4	Staff in ER is not using 5S in correct way	0.5	1
Risk 5	Some nurses are new no idea about 5S	0.8	1
Risk 6	The ER rooms transferred to another area	0.1	0.8
Risk 7	Construction work around ER department	0.1	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		

Table 3:

No.	List of Risks	Probability	impact	Severity	Response Plan	Mitigate Action
Risk 1	ER department refuse the 5S project idea.	0.7	1	High	Recognize the 5S to the ER supervisor and staff and show him the result	Show the staff some example happed in ER not used 5S and the impact of not using it .
Risk 2	People changed from ER department.	0.3	0.8	Low	Make a template inside the department define to	Make a list of the staff schedule in case any change we

					all person's in simple way	can track them
Risk 3	Some staff in ER is not implement 5S in the department	0.3	0.8	Low	Make a 5S supervisor	Ask the supervisor to monitor the 5S in the department in weekly basis to make sure its implementing
Risk 4	Staff in ER is not using 5S in correct way	0.5	1	High	Trying to know the reason by got scoring feedback from the staff	Make a Video training and send it by whatsapp to each one .
Risk 5	Some nurses are new no idea about 5S	0.5	0.6	Medium	Calling head nurse	Ask head nurse to train them for 5S
Risk 6	The ER rooms transferred to another area	0.1	0.8	Medium	Applying same 5S in new area	Make a picture before transferring
Risk 7	Construction work around	0.1	0.1	Low	Complete 5S	Try to isolate the disturbance

	ER department					
--	---------------	--	--	--	--	--

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 2900 SR , while the contingency cost is 1650 SR.

No.	List of Risk	Probability	Impact Cost SAR	Risk Contingency
Risk 1	ER department refuse the 5S project idea.	0.7	500	300
Risk 2	People changed from ER department.	0.3	300	100
Risk 3	Some staff in ER is not implement 5S in the department	0.3	300	100
Risk 4	Staff in ER is not using 5S in correct way	0.5	500	300
Risk 5	Some nurses are new no idea about 5S	0.5	500	300
Risk 6	The ER rooms transferred to another area	0.1	700	500

Risk 7	Construction work around ER department	0.1	100	50
--------	--	-----	-----	----

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.

Reference

