



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

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Section

Master

Date

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Course Code

(PMG510)

Project Risk Management

Instructions:

- آخر موعد للتسليم هو يوم السبت 2021-05-08 في تمام الساعة ٩ مساءً.
- الإجابة متاحة باللغة الإنجليزية أو اللغة العربية مع مراعاة أن تكون المصطلحات العلمية باللغة الإنجليزية.
- 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. وإن 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 ردة الفعل المناسبة عند وقوع الخطر – لمنع أو تقليل الآثار السلبية على المشروع.

قد تحبذ بداية هذا البحث بعصف ذهني عن ماهية المخاطر التي قد تحيط بتلك المرحلة 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.

سنقوم 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 management is taken into account because the process during which possible risks to the project are identified, assessed and controlled so as to sustain the operations. Risks can have various sources from which it can occur, and a few of them include uncertainties in financial operations, errors in strategic management, legal liabilities, natural disasters and accidents. In risk management processes there are five different processes that are identification, assessment, mitigation or controlling, monitoring and reporting of risk.

Risk identification

This is the primary process of risk management is risk identification. All the events are evaluated that would have negative impact the project and its operations also. period of time is chosen when the danger would happen and it are often over days, few weeks etc. within the risk management for project legally updated compliances laws must be prepared and managed also. Risk events that have happened within the past are examined with their cause.

Risk assessment

When there's an identification of risk and their probability then it's time for assessing the likelihood of those events and their relevant impact on the project. Risk matrix I created for this purpose that encompasses both likelihood of happening of risk and negative impact on the project.

Mitigation of risk

In this step or process multiple procedures are adopted and implemented so as to scale back and eliminate the likelihood of risks. There can't be an ideal decide to end the danger but mitigation changes are important as they will assist in reducing the danger and its impact.

Risk monitoring

When the danger is identified, assessed and there's a mitigation plan for the danger then implementation of risk plan is then monitored so as to see the effectiveness of the developed alongside the occurrence of risk events. Monitoring of risk mitigation plan should be performed throughout the implementation of risk mitigation plan.

Risk reporting

This is the last step during which progress of risk management plan is recorded in documented form for the longer term used. It assists in engaging the stakeholders of the project regarding risks and progress of risk mitigation plan also.

Potential risks

We will be analyzing potential risk that would encounter in our project

Cost risks

In the project this risk has more likelihood to occur and it's the good risk for the project and its finances. Leading a top quality and effective project by staying under the budget may be a difficult task and project managers need to make suitable profit also.

Technological risk

Technological risk is another risk as technology are often confusing and frustrating sometime. Studies have declared that technological and IT related projects are 3 percent successful.

Labor shortage

Shortage of labor is another potential risk for the project and it directly affects the productivity of the project. Schedules of the projects would be prolonged if there'll be no proper manpower or labor workforce. Project delivery is delayed during this manner. Not for this our project except for every project shortage of labor may be a critical risk.

Health and safety hazards

Ensuring the security of labor or working staff is that the responsibility of the project manager. Site conditions aren't certain and may change rapidly. There are often serious injuries as a results of hazard.

Communication risk

Communication plays a crucial role within the success of the project. Effective communication leads to easy and operative conveying of message. However, during a project there are often communication risk which may hinder the success of project. There is often no communication between labors which could end in lack of confidence and not sufficient transferring of data and ultimately the project is affected.

Risk matrix

		Impact		
Probability		High	Medium	Low
	High	Technological Labor shortage		
	Medium		Financial cost and communication	Natural hazard
	Low			

Impact of risks and response

We will analyze the impact of risks.

Impact and response of cost risk

Cost risk can cause the performance risk. From cost risk different other risks are generated including performance risk, scheduling risk, quality risk etc. all the schedule of the project are going to be prolonged due to the impact of cost risk that's caused by the mismanagement of funds. There should be proper management of cost and there should be separate qualified and experienced finance manager for the project which lead all record in digital safe form and supply other effective services also.

Impact and response of technological risk

In project technological risk can impact the entire project. Today's world may be a times during which technology his being preferred over traditional operations. If the workers and managers are now conscious of the technology and aren't compatible with the technology, then project fails. If technology Information technology is implemented there are security risks, cyber-attacks risks, outage of services etc. it could end in the theft of the critical information of the project. There should be proper training given to the labors and workers regarding the adoption of technology. Cyber security system should be developed for secured project operations.

Impact and response of labor shortage

Impact of labor shortage includes the delay within the delivery of project, poor quality. It ends in higher cost of operations for extra time and efficiency of overall project is affected. As a response of labor shortage there should be development of community partnerships. Managers should plan of the box and supply faire wages alongside benefits.

Impact and response of Health and safety hazard

Health and safety hazards impacts within the sort of injury of the workers and staff which in turns affect the performance of the project. There should be proper use of safety kits and safety instruments for safety.

Impact and response of communication risk

The impact of communication response comes with the complexity of interaction between the audience and therefore the message being conveyed. There should be consistency of focus, everyone should hear everyone. There should be recognition and positivity.

Reference

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