



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

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Section

Master

Date

Thursday

18 / 03 / 2021.

Course Code

(PMG510)

Project Risk Management

Instructions:

- اخر موعد للتسليم هو يوم السبت 08-05-2021 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 ١٢.
- 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..

1.Introduction

Saudi Arabia's improve reforms in doing great local & international business , make its commitment to fulfilling a major pillar of its Vision 2030: a thriving economy, "Easing the business climate for local entrepreneurs to thrive as well as foreign Business men & investors to work & invest in the Kingdom shows a forward path to creating sustainable, We are knowledgeable and experienced in all facets of exportation and importation, assisting with customs processing and attending to all shipping requirements. Then in pandemic situation thing are changed to be better or very worse and bad. This situation is exacerbated by the high complexity associated with the projects characterized by massive investment, extensive execution processes, numerous resources, and stakes in unstable economic and political environments, in several industries such as construction and information and communication technology. Risk assessment and control during all phases of a project is a strong necessity. A range of definitions and approaches have resulted from different perceptions, attitudes and requirements. Project risk means potential loss or injury. Project risk is an uncertain occurrence or condition that has an impact on at least one project goal if this occurs.

2.Lecture review

Venture Vulnerability Administration In truth, three micro phases might be summarized. The primary steps of these forms are to get it and plan the hazard administration exertion by deciding the project's level, degree and objective. The mid-term steps are planned to recognize chance nearby its causes, impacts and how they relate to each other, to assess their likelihood of event and affect, to prioritize risk reaction procedures and to set up plans for possibility.

Success factors of implementing SCM in our project
Effectiveness %

1 Stake holder's participation	20
2 Senior management embracement	15
3 Clear business goals	15
4 Good program selection	15
5 An expert project manager	10
6 Small objectives	5
7 System needs	5

8 Competitive staff	5
9 Proper planning	5
10 Project owner	5

Many studies have been trying to determine the relationship between the efficient implementation of SCM systems and the degree of beneficiaries' satisfaction, especially, in the governmental organization. While this study aims at discovering some of the adequate SCM implementation benefits, which can be summarized.

3. Methodology

Based on our experience in the field, collecting data from the market the old studies SCM in AHACO applications can be provided by:

- 1- In-house Application Development: The mean by which all institution's needs are collected and passed to those in charge of the development of the proper applications inside and outside the institution.
- 2- Ready Mode Applications: The method in which applications are previously developed based on the ideal practices. These ready applications are usually exposed to special modifications commensurate with the special institution's needs.

This method has been considered as the best, for several advantages like follows:

- A. Best international practices application.
- B. The ability to keep up with all developments using licenses.
- C. The availability of technical support for these applications via their licenses.
- D. Avoiding most applications' problems (Applications Bugs).
- E. The availability of flexible pre-made data templates based on pre-made database.
- F. Providing pre-made reports and forms.

Strategy Should include the Venture group , partner from hint to dodge the max hazard can happen afterward , All dangers were recognized and recognized, and a countermeasure was recognized for each hazard. Staff will make each exertion to guarantee that steps are taken to completed schedule.

Risk Matrix includes the following:

Risk	Likelihood	Severity	Likelihood multiplied by severity	Priority and risk numbering group
Website , Apps and IT HD services shutdown due to technical problems	Unlikely (2)	Delay	2	Low Priority
Delay in delivering the service to investor , storage failure	Possible (3)	Losing Customers	6	Medium Priority
Breakdown of most of the fleet vehicles	Possible (3)	Financial Loss	9	Medium Priority
Employer getting infected by new novel Coronavirus or any dangerous disease	Possible (3)	penalties & detentions	15	Urgent Action
Delivering the project late	Probable (4)	Bankruptcy & Losing Business	16	Urgent Action

Evaluate or Rank the Risk:

Likelihood	Severity				
	Delay	Losing Customers	Financial Loss	penalties & detentions	Bankruptcy & Losing Business
Highly Unlikely	1	2	3	4	5
Unlikely	2	4	6	8	10
Possible	3	6	9	12	15
Probable	4	8	12	16	20
Certain	5	10	15	20	25

- 1- Urgent Action - (Risk no 15 - 25)
- 2- High Priority - (Risk no 10 - 12)
- 3- Medium Priority - (Risk no 5 - 9)
- 4- Low Priority - (Risk no 2 - 4)

5- Very Low Priority - No Action Required (Risk no 1)

Treat the Risk & Risk contingency plan:

1st Risk:

Website, Apps and IT HD services shutdown due to technical problems.

Treatment:

make an agreement & get accounts with 3th party to use his tracking system with our shipments.

2nd Risk:

Delay in delivering the service to investor, storage failure.

Treatment:

Make a rental agreement with 3th party to use the warehouse.

3rd Risk:

Breakdown of most of the fleet vehicles.

Treatment:

Bank loans by other source and make a rental agreement with 3th party for fleet transportation.

4th Risk:

Employer getting infected by new novel Coronavirus or any dangerous disease.

Treatment:

Hire an expert employees know to do the same scope temporary.

5th Risk:

Delivering the project late.

Treatment:

We will rent the customs clearance & shipping license while we finish our and deliver the project to start the services immediately.

Monitor and Review the risk:

We will keep tracking and monitoring the progress to enhance the quality of the deliverable projects. Also, we will try to avoid any financial problem to protect the project from any delay.

4.Results

Extend hazard investigation and administration is a progressing prepare that can start at any organize of the project cycle and can final and proceed until the costs of its utilize gotten to be more than its potential advantage that can be picked up. The venture advances, the dangers diminish and hence the adequacy of utilizing hazard examination and management tends to decrease so it is advisable to utilize it within the early stages of the venture life cycle. There is no extend that does not have dangers, but all ventures have risks, and analyzing these dangers after identifying them and after that overseeing them is an indispensably portion of extend administration, and without that the project will be subject to disappointment.