

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 الخميس 2021-05-20 في تمام الساعة 9 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. 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 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 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..

The Impact of Poor Communication in Success Project

Introduction

Alternative Definition by the author: Event with the ability to impact (inhibit, enhance or cause doubt about) the mission, strategy, projects, routine operations, objectives, core processes, key dependencies and /or the delivery of stakeholder expectations.

Risk can have positive or negative consequences, or simply lead to uncertainty. Therefore, risk can be attributed to an organization's opportunity or loss, or the existence of uncertainty. Each risk has its own characteristics and requires specific management or analysis. risks are divided into three categories:

- hazard (or pure) risks, it is always effective negative when it happens.
- control (or uncertainty) risks.
- opportunity (or speculative) risks. It is related to Organization Appetit to tack it or leave it.
- compliance (or mandatory) risks. It is related to government and licenses.

it is important for Organizations to make the project success as them goals with (cost, time and quality) without Risk plan it will be failures. The Risk management plan guiding organization to right path to achieving the goals and it expect the most Risk effective on project.

Organizations will seek to minimize compliance risks, mitigate hazard risks, manage control risks and embrace opportunity risks.

a communication plan can help your business during a time of crises if a previous decision damaged your reputation with internal stakeholders or customers. **Bad communication managed will lead to de-motivated workforce, design errors, slowdown in the entire job and failure in production wrong information's etc. Therefore, using an appropriate communication management system to resolve construction and design problems is essential** (Foley, J. and Macmillan, S. 2005).

Project communication management ensures timely and appropriate generation, collection, dissemination, storage, and disposition of project information. Open and clear

communications are required among planners, implementers, and all levels of the organization for project success. It includes having a communication plan, information distribution path, progress reporting, and information sharing system for management and customers (Kwak & Ibbs, 2002)

Literature Review

Project success is important for stakeholder needs. The project success based on cost, time and quality. The main objective of the research work that investigate the impact of effective risk management processes on project success with Risk plan and without Risk plan.²

The company treats stakeholder groups with different goals, skills, cultures, values and professions. This requires effective management of communication between the various stakeholders to facilitate their interaction and ensure the delivery of successful projects. Poor communication can result in project failure, especially in serious cases where the problem is not resolved. Managers and operating organizations need to understand the causes and effects of poor communication and take the necessary steps to improve the communication process in their plans. The purpose of this research is to identify and analyze the causes and effects of poor communication in this project³.

in project management, high risk is seen as a major obstacle to project success. This article aims to how project improvement can lead to better success in high-risk projects. An index for planning quality was developed to how the presence of high risk affects the quality of planning and project success. The index covers administrative matters such as costs, staffing, procurement and quality, as well as aspects of organizational collaboration based on the organization's maturity model. We've found that when a project manager is at high risk, they significantly improve their project plans. Therefore, in high-risk projects, better project plans lead to improvements in all four aspects of project success: schedule overrun, cost overruns, technical performance, and customer satisfaction. We have found that improving project planning is an effective way for management to handle high-risk projects. Finally, the paper presents the most common planning tools currently used in high risk projects⁴.

Methodology

To preparing Risk plan should be referring to the (APM) research

1. Identing Risk

NO	Risk list
1	Wrong Feedback from EX-Consultants
2	Missing Grounding at Location serve
3	Meeting timely Wrong
4	Stakeholders absent in meeting
5	Work delay by Contractors
6	Payment invoices delay to contractor and sub-contractors
7	Training Team
8	Wrong Feedback from Critical sites Area
9	Approval Materials Requisite delay

2. make a risks matrix (determine the probability and impact of each risk)

No	Risk list	Probability	Impact
1	Wrong Feedback from EX-Consultants	0.1	0.7
2	Missing Grounding at Location serve	0.4	0.9
3	Meeting timely Wrong	0.3	0.1
4	Stakeholders absent in meeting	0.1	0.8
5	Work delay by Contractors	0.5	0.9
6	Payment invoices delay to contractor and sub-Contractors	0.3	0.7
7	Training Team	0.1	0.2
8	Wrong Feedback from Critical sites Area	0.6	0.9
9	Approval Materials Requisite delay	0.3	0.6

3. Severity Risks using Risk Matrix to find the response plan.

0 to 0.29	Probability	Low	Low	Medium
0.3 to 5.5		Low	Medium	High
0.56 to 1		Medium	High	High
		Impact		
		0 to 0.29	0.3 to 5.5	0.56 to 1

Risk	Probability	Impact	Severity	Plan
Wrong Feedback from EX-Consultants	0.1	0.7	Medium	Meeting Request to Investigate
Missing Grounding at Location serve	0.4	0.9	High	Escalation to Area Manager and concern Department (Safety & control to Investigate) then reporting with result
Meeting timely Wrong	0.3	0.1	Low	Make reschedule for other meeting
Stakeholders absent in meeting	0.1	0.8	Medium	If normal meeting adding 10 mint till reach otherwise If high level Meeting reschedule
Work delay by Contractors	0.5	0.9	High	Investigate with them
Payment invoices delay to contractor and sub-Contractors	0.3	0.7	High	Escalation to Finance for quick action
Training Team	0.1	0.2	Low	contact with training sources to make it
Wrong Feedback from Critical sites Area	0.6	0.9	High	investigate with them
Approval Materials Requisite delay	0.3	0.6	High	Escalation to Area Manager and concern Department (Supply) then reporting with result

4. Calculate EVM for each risk

Risk	Probability (P)	Cost Impact (IC)	Risk Contingency (P*IC)
Wrong Feedback from EX-Consultants	0.1	5000	500
Missing Grounding at Location serve	0.4	20000	8000
Meeting timely Wrong	0.3	0	0
Stakeholders absent in meeting	0.1	6000	600
Work delay by Contractors	0.5	35000	17500
Payment invoices delay to contractor and sub- Contractors	0.3	50000	15000
Training Team	0.1	1000	100
Wrong Feedback from Critical sites Area	0.6	100000	60000
Approval Materials Requisite delay	0.3	80000	24000
Total		297000	125700

Results and Discussion

In the above tables the result coming after a lot of processes and it including:

(High-Red & Dark Orang) ,(Medium-Yalow) and (Low -green) in this steps Organization should be care about the risk which effectively with high impact if happen to make Contingency plan to reduce the effective.

In the last table it is describe the cost of impact for risk how much company loss, after that how much company save when make contingency or recovery plan.

References

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