



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 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 **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 \$\$.

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 إدارة المخاطر المناسبة لكل خطر على حدة.

من محتويات المقرر والمصادر الأخرى المتاحة أصبحت تعلم الآن 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.

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 Identification and Analysis

Risks involve the effects that uncertainties could have in achieving certain objectives.

When organizing a sports event, the objective of my team would be to deliver it successfully by managing all the risks involved. All forms of sports and recreational events involve certain levels of risks that are influenced by a wide range of variables that range from weather conditions, the number of participants and spectators, the location of the event, and the activities involved (Hanstad, 2012). Most of them may be greatly reduced through sufficient preparations. This paper identifies the risks, categorizes them based on their impact and probability of occurrence, and presents a detailed analysis to create an appropriate plan to manage them.

Risk Matrix

Impact			
Likelihood	Insignificant	Moderate	Catastrophic
Low	Unacceptable refreshments for the team	slippery and dangerous site of event	Event cancellation due to failure to obtain the necessary permits
Medium	Bad weather	Delayed team arrival	Insecurity at the event site
High	Guest speaker unavailable at late notice	Minor injury, illness, fatigue or exhaustion to player or official	Inappropriate site selection travel destination

Given that the various participants and guest speakers will be served with refreshments, there is the likelihood that some members will not accept the items provided for consumption due to various reasons including their health. For instance, there could be some members suffering from diabetes and therefore may find sugary refreshments unacceptable. This particular

risk will not require any form of monitoring. However, the committee will seek the services of a nearby restaurant to provide appropriate refreshments and drinks that suit the needs of each person.

The competition will take place at an outdoor venue. Although it meets the conditions to host such a local event, there is the likelihood that the ground could become slippery and dangerous if it rains. The risk would have a major impact on the participants but would not affect the spectators in any way because the selected field has a shelter. If it rains and the ground becomes slippery and dangerous, the event could be delayed for some time.

Event cancellation due to failure to obtain the necessary permits is the most catastrophic risk that could occur. However, its probability of occurrence is low. The organizing committee has already assigned one of its members the responsibility to seek permission from the relevant authorities and obtain the permits that would allow us to hold the events. To ensure that this risk does not occur, the organizing committee has decided to continue with other plans only after obtaining all the permits required to hold the event. However, there exists the possibility that we could be denied the venue in case of an unforeseen emergency such as a disaster. In that case, we will reschedule to a future date.

Bad weather carries medium risk. It would prevent spectators and various teams involved from arriving at the site on time. Since the event will begin in the morning and continue until in the evening, this risk would produce an insignificant impact on the event. It is unlikely that it would rain the whole day. Since this would be a local event, it is expected that some members of the community will find a chance to get into the venue. However, bad weather could reduce the number of spectators. To respond to this risk, we will hire a few shelter sports tents.

Late arrival by team members could produce a significant impact on the event. Its risk is low. It could present a major obstacle to achieving our main goals of educating the youth about the need to protect their environment and address issues of climate change. When teams arrive late, the event will be delayed. As a result, the time for the guest speakers to address the audience will be cut significantly. To address the risk, different teams would be required to communicate their progress in preparation for the event to the organizing committee. Moreover, they will be required to arrive at the venue on time.

Given that our charitable event will address the sensitive matters of environmental protection and climate change, there exists a medium likelihood that we will attract the attention of anti-climate change lobbyists that could take a protest around the venue. If this risk occurs, it would produce a catastrophic impact. Apart from endangering our security, it could lead to event cancellation. We will hire the services of a security company to monitor activities within the community and provide security to all the participants.

The unavailability of the guest speaker at late notice would make it difficult for us to achieve our objectives of creating awareness about environmental protection among young people. To monitor the risk as early as possible, we will contact the speakers two days before the event to confirm their availability. The response strategy would involve identifying several people with expertise in climate change and environmental protection that we can't contact and request them to talk to our audience on short notice. There is a high likelihood that some of the team members that will participate in our event could suffer from injuries and exhaustion (Spengler, Connaughton, & Pittman, 2006). Although this risk could delay the event a bit, the level of impact would depend on the extent of injury sustained. To respond to this risk, the organization will place a medical team on standby to respond to such emergencies. Finally, the selected venue

for the event could discourage some of the spectators and teams from participating. We will listen to the views of the members of our local community regarding the selected site. The organizing committee must select a central venue that is easily accessible by everyone.

References

- Hanstad, D. V. (2012). Risk management in major sporting events: A participating national Olympic team's perspective. *Event Management*, 16(3), 189-201.
- Spengler, J. O., Connaughton, D., & Pittman, A. T. (2006). *Risk management in sport and recreation*. Human Kinetics.

