



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

Student Name	طارق محمد الرشيدى	اسم الطالب
Students I.D	2021203784	الرقم الجامعي

Section

Master

Date

Sunday

16 / 05 / 2021.

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 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 موحّد 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 \$\$.

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.

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..

RISKS OF HOSTING A PUBLIC EVENT

Introduction

Event companies are facing too many risks that affect their operation and project goals. The project that I'm going to identify the risk is an event called "Qimrah". It is a public event that is part of the Riyadh season. It gathers all adventures and challenges lovers and gives them the chance to live the Qimrah exclusive experience with different activities suit all ages group. In the execution phase, we may face difficulties and risks that could affect the event significantly. I will go over the risk related to the event's security, operation, health, and safety.

Literature Review

According to a research paper that Dr. Haitham submitted from Amman College "for the last ten years, companies face more risks and uncertainty than ever before. Stakeholders and clients expect more; most importantly, they do not want surprises and are more likely to engage in litigation when things go wrong." (pg13)

These things make us think more about risks overall and how the risk became an essential part of project management.

Another research published by Kamalendra " The management of risk was found to play a huge role in overcoming different risks such as health, safety. Certain factors like unsafe working conditions and non-conformance to statutory requirements for workers safety might lead to severe hazards" (pg4)

This is why we must do a risk assessment to understand different risks that the management may face and how we can deal with them in case that happens.

Methodology

we will go over the risks that may be associated with having public events. We will have the main risk category, risk description, risk Impact, cost impact, cost impact, quality impact, risk score before mitigation, mitigation strategy, mitigation action, mitigation date, risk score after mitigation, and risk owner. As the following table:

ID	Risk Main Category	Risk Description	Risk Impact	Cost Impact	Schedule Impact	Quality impact	Risk Score	Mitigation Strategy
1	Third Party Risks	Vehicle movements and visitor entrance	Which may result in harm of Staff, public, contractors and could create a hazard situation	Yes	Yes	Yes	Medium Risk	Mitigate

Mitigation Action	Mitigation Date	Risk Score after Mitigation	Risk Owner
1. Access to the event will be determined. All event areas will have well signed entrance and exits where stewards will operate a counting system to regulate the capacity & attendance of each area. 2. All cars in the time of enter or exit i must travel in one direction at set times. 3. Car parking stewarded and car park well lit. Taxi/Bus drop off point provided and pedestrians discouraged from walking on the Highway. Signage and lighting provided to warn other road users of event.	30-Apr-21	Low Risk	Third Party

ID	Risk Main Category	Risk Description	Risk Impact	Cost Impact	Schedule Impact	Quality impact	Risk Score	Mitigation Strategy
2	Third Party Risks	Crowd Management	Which may result in harm of Staff, public, contractors and could create a hazard situation	Yes	Yes	Yes	Medium Risk	Mitigate

Mitigation Action	Mitigation Date	Risk Score after Mitigation	Risk Owner
1. Visitors will be greeted upon arrival at the entry gates by external security / Ushers and/or search staff. The event will be categorized by the local police, the searching of the guests will be implemented according to the category that be evaluating the threat/risk level and escalation measures will be put in place in accordance with that threat. 2. All exit gates will be free flowing but will be supervised from the Event Control Room. During busy times stewards/ushers will be deployed to assist with the crowd dispersal.	1-May-21	Low Risk	Third Party

ID	Risk Main Category	Risk Description	Risk Impact	Cost Impact	Schedule Impact	Quality impact	Risk Score	Mitigation Strategy
3	Third Party Risks	Fire Safety	Which may result in harm of Staff, public, contractors and could create a hazard situation	Yes	Yes	Yes	High Risk	Mitigate

Mitigation Action	Mitigation Date	Risk Score after Mitigation	Risk Owner
1. fire extinguishers and blankets will be all over the event area. According to the civil defense requirements. 2. Will have four different water pumps. Two diesel and and two electrical pumps. 3. Will have a system for the fire alarm that will detect the smoke and will have people in the CCTV room to watch the event area at all time. 4. Will have two water tanks dedicated only for the fire	2-May-21	Low Risk	Third Party

ID	Risk Main Category	Risk Description	Risk Impact	Cost Impact	Schedule Impact	Quality impact	Risk Score	Mitigation Strategy
4	Third Party Risks	Electrical Power/Generators	Which may result in the power shutdown and the events to stop	Yes	Yes	Yes	Medium Risk	Mitigate

Mitigation Action	Mitigation Date	Risk Score after Mitigation	Risk Owner
1. The facilities will be equipped with the latest high-quality sound and lighting devices that can function at a high level of performance during the event period. 2. We will provid excellent service in terms of power supply and electricity work at all locations required. Unique services regarding electricity power supply have many features as follows: - Multi generators at each defined site with synchronizing system to avoid any power interruption during maintenance time and load sharing system -Stability power supply - Unrestricted loads – single phase, 3 phases - Variable voltages 110/220 – 220/380 volts 50/60 Hz - Weatherproof panel boards – IP.65 - Independent grounding pit for each gen-set group, each mdb	3-May-21	Low Risk	Third Party

- RCCB breakers 300ma, 100ma single or three phases –(In order) - Dispo panels for small loads - Safe installations, underground, overground as per requirement - Available operators 24hrs /12 hrs as per requirement - Running on-demand factor 50-60%		
--	--	--

ID	Risk Main Category	Risk Description	Risk Impact	Cost Impact	Schedule Impact	Quality impact	Risk Score	Mitigation Strategy
5	Third Party Risks	Lack of communication between the organizer and contractors	Which may result in delay of the events	Yes	Yes	Yes	Medium Risk	Mitigate

Mitigation Action	Mitigation Date	Risk Score after Mitigation	Risk Owner
1. In site Communications Plan : The main form of communications that will be used throughout the event will be handheld Walkie Talkie TYT TH-UV8000D that will be pre-programmed with sufficient channels (TBC) for all areas and a Wide Area Network system will be used to ensure consistent communications between venues from Security Managers and Supervisors. Walkie Talkie (Two-way radio) TYT TH-UV8000 is used for local area internal communication and it covers more than 1 KM. Also, it can make up to 25 channels as per the group or team requirement, while the battery lasts more than 2 days. 2. Event Control Throughout the event, the control will have primacy over all talk groups, they will have sufficient Radios with an all-call capability, allowing them to talk to all programmed channels across the event, any such transmission will be	4-May-21	Low Risk	Third Party

repeated to ensure all radio users have received the all-call message. A detailed channel and allocation list will be produced by location and department to ensure a strong communications network both locally and sitewide. 3. Communications Check There will be a communications check, each day, prior to the event going live for all radio users, this will be coordinated by the event control.		
---	--	--

ID	Risk Main Category	Risk Description	Risk Impact	Cost Impact	Schedule Impact	Quality impact	Risk Score	Mitigation Strategy
6	Requirement_Risks _ Authorities Approval	COVID 19 - CODE of PRACTICE	Which may result in harm of Staff, public, contractors	Yes	Yes	Yes	Medium Risk	Mitigate

Mitigation Action	Mitigation Date	Risk Score after Mitigation	Risk Owner
We give special consideration to follow all precautionary measures in order to limit the spread of the COVID-19. As a result, we have developed health practices by applying measures that contribute to achieving the highest levels of health and safety, not only among employees in the enterprise, but also including all work staff and those in charge of implementing projects and events. The precautionary measures tools used in the event as following: 1. Sanitizers and Disinfectants 2. Electric Cold Foggers 3. Cloth Face Coverings 4. Posters & Banners	5-May-21	Low Risk	Project Manager

Results

In this part we are going to calculate the EMV cost for a public event. All those numbers came from the our database of all the hundreds of previous projects. The cost of contingency is 146,300 SAR, and the total cost is 3,224,000 SAR.

NO	Risk	Probability	Impact cost	Risk contingency
1	Vehicle damage (accidents)	0.1	SAR 100,000	SAR 10,000
2	Fire	0.02	SAR 1,000,000	SAR 20,000
3	Power shut down	0.1	SAR 50,000	SAR 5,000
4	Emergency Maintenance	0.2	SAR 24,000	SAR 4,800
5	Unexpected procedure because of COVID-19	0.15	SAR 30,000	SAR 4,500
6	Delay of the events time (because of COVID-19)	0.05	SAR 2,000,000	SAR 100,000
7	Lost of kids of items (cost of storage and take care)	0.1	SAR 20,000	SAR 2,000
Total			SAR 3,224,000	SAR 146,300

Discussion

Operating at a strategic level, we will ensure all plans, policies, procedures, overarching risk and threat assessments and structures are in place to deliver a welcoming but safe and secure environment for the duration of the Event. Our experienced security team will be the liaison with local police and transport police, and will ensure briefings are delivered to the security committee to guarantee that all emergency services and wider stakeholders are aligned to the event plans. Finally, Our teams bridge any skill gap that exists in the workforce involved in the project that we are entrusted to manage, and coordinate by providing a team of seasoned professionals using their knowledge, experience and awareness to execute the project maximizing its successful outcomes and minimizing risks.

References:

- National University of Singapore. (2006). *Risk Assessment Framework for Project Management*. Eng Seng Chia.
https://www.researchgate.net/publication/4264846_Risk_Assessment_Framework_for_Project_Management.
- Al-Balqa' Applied University. (2013). *The impact of risk management on construction projects success from the employees perspective*. Haitham Hmoud Alshibly.
https://www.researchgate.net/publication/269168693_The_impact_of_risk_management_on_construction_projects_success_from_the_employees_perspective.