



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

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(PMG510)

Project Risk Management

Students Assessment Center

1. Introduction

Risk is an uncertain event that can have either positive or negative effect on project objectives. Additionally, risk management is the systematic process of identifying, analyzing, and responding to project risks. Risk management have many principles that make it successful, it must be PACED as in proportionate to organizational risk level, aligned with business activities, comprehensive, embedded within business procedures and protocols, and finally it must be dynamic and responsive to changes. Risk management incorporates various planning, models, which involve qualitative and quantitative analysis.

The main goal of risk management is to increase the likelihood and impact of positive outcomes and decrease the likelihood and impact of the negative outcomes. Risk management must occur repeatedly in all phases through the project life cycle. There are many reasons why risk management matters like:

- 1- It make jobs safer by preventing hazard risks to ALARP (As Low As Reasonably Practicable)
- 2- RM enables project success as they reduce the likelihood and impact of potential risks by identifying them early, if something go wrong, there will already be a response in place to handle it.
- 3- RM reduce uncertainties by mapping all potential risks and work to prevent them or manage them.
- 4- RM creates financial benefits by embracing opportunity risks or at least provide alternative solutions for how to manage risks.
- 5- RM guides decision-making.

In 2020, because of Covid-19 all of the schools and high education institutions couldn't take students in their facilities so they started a web platform that enables the teachers to give lessons, tests, and connect with students. This year has opened the doors for our project. A formal application for students from every school in Saudi Arabia to take tests. This project is sponsored by the Ministry of Education and it will be

linked by national ID. It will allow schools and universities to save time and paper work by giving their tests on a computerized, easy to use, system. It will also make it available for the Ministry of Education to access student reports through all grades. In this research I will talk about the risks which we may face on our project. How should we identify, analyze, and respond to these risks?

2. Literature Reviews

The current COVID-19 pandemic impacts on all aspects of human life, including education. Educational institutions worldwide have responded to closures in many ways, but by far the almost universal reaction is shifting to online teaching, learning, and assessment. If not addressed thoughtfully, the risks of online assessment are far greater than rewards. These online assessments include personal data and very important to the government.

3. Methodology

3.1 Impact-Likelihood Matrix

A matrix that is used to define the level of risk by considering the likelihood against impact. We use impact because it is more important for the organization, this matrix increase visibility of risk and assist management decision-making.

3.2 EMV

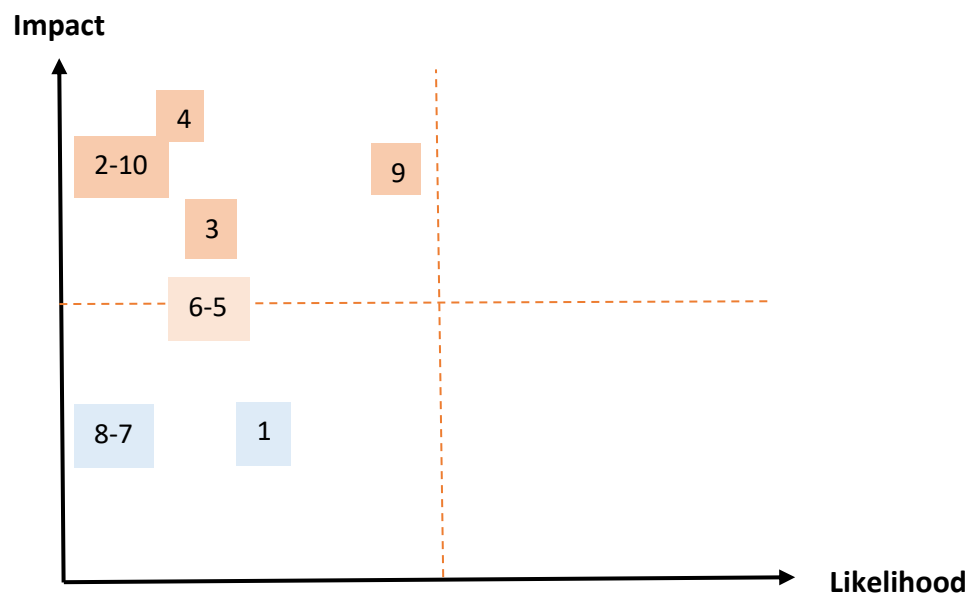
Expected Monetary Value is a risk management technique used to help quantify and compare risks in many aspects of the project. A quantitative risk analysis that enables us to estimate a contingency budget to cover the impact.

3.3 Risk Register

A document used as a risk management tool used to identify potential risks in a project to stay on top of potential issues that can derail intended outcomes. It contains details on risks faced by the project and it has to be very dynamic document discussed at every project review meeting.

No.	List of Risks
1	Weak Internet Connection in area
2	No Cell tower in area (No connection)
3	Servers cannot comprehend the number of students
4	Security Issues (Viruses – Hacks)
5	Teachers cannot handle the application (Complicated to use)
6	Students cannot handle the application (Complicated to use)
7	Change in course methodology
8	Question bank does not match the course
9	App performance issues (System)
10	Compliance Risks

No.	Risks	Probability	Impact
1	Weak Internet Connection in area	0.3	0.3
2	No Cell tower in area (No connection)	0.1	0.8
3	Servers cannot comprehend the number of students	0.3	0.7
4	Security Issues (Viruses – Hacks)	0.2	0.9
5	Teachers cannot handle the application (Complicated to use)	0.2	0.5
6	Students cannot handle the application (Complicated to use)	0.2	0.5
7	Change in course methodology	0.1	0.3
8	Question bank does not match the course	0.1	0.3
9	App performance issues (System)	0.4	0.8
10	Compliance Risks	0.1	0.8



Risk	Risk Probability	Risk Impact	Risk Contingency
1	0.3	7,000	2,100
2	01	15,000	1,500
3	0.3	10,000	3,000
4	0.2	40,000	8,000
5	0.2	8,000	1,600
6	0.2	8,000	1,600
7	0.1	7,000	700
8	0.1	7,000	700
9	0.4	25,000	10,000
10	0.1	25,000	2,500
Total		152,000	31,700

No.	Risk description	Likelihood	Impact	Severity	Mitigating Action
1	Weak Internet Connection in area	0.3	0.3	LOW	Strengthen the cell tower signal.
2	No Cell tower in area (No connection)	0.1	0.8	HIGH	Report and build a new cell tower in area
3	Servers cannot comprehend the number of students	0.3	0.7	HIGH	Secure business with reliable server hosting company. (Transfer)
4	Security Issues (Viruses – Hacks)	0.2	0.9	HIGH	Secure business with reliable server monitoring company. (Transfer)
5	Teachers cannot handle the application (Complicated to use)	0.2	0.5	MEDIUM	Give training on how to use the application for teachers.
6	Students cannot handle the application (Complicated to use)	0.2	0.5	MEDIUM	Give training on how to use the application for students.
7	Change in course methodology	0.1	0.3	LOW	Inform 3 months before changing the methodology
8	Question bank does not match the course	0.1	0.3	LOW	Check 1 week before ever exam.
9	App performance issues (System)	0.4	0.8	HIGH	Increase stability with a reliable company to monitor and instantly fix. (Transfer)
10	Compliance Risks	0.1	0.8	HIGH	Inform, reform, then conform to eliminate compliance risks.

4. Result & Discussion

Based on the identification of these risks, the potential impact to the project is 152,000 SAR. However, this is only needed if all these risks occurred. To cover the risk impact, we need to have a reserve of 31,700 SAR added to the budget as risk contingency.

As for the impact-probability matrix we should transfer and apply directive controls for risks in the upper left corner (High impact – low likelihood), and tolerate and apply detective controls for the risks in the lower left corner.

5. References

1. Dr. Mosaab Hamad, (PMG-510) course
2. Paul Hopkin, Fundamentals of Risk Management
3. Nasser Almuhaimeed, Project Management Professional, 2018