



Everyone's Smart University

Project (Spring 2021)

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Section

Master

Date

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Course Code

(PMG506)

Advanced project Management

Instructions:

- اخر موعد للتسليم هو يوم الخميس 2021-05-20 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 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. Amaal Aburumman

Project:

You are required to document your role in administering a project. The project may be set in a business, social, sporting, or family environment but must be of a significant size and scale. If you do not have an actual project to write about you may complete the project hypothetically. **This report will be between three to six pages in length**. This is a significant research project.

Your report must address each of the following issues:

1. Identify and describe the purpose, scope, and objectives of the project. **Display this information using an appropriate tool.**
2. Describe how the team is given an outline of the project.
3. Describe the strategies that are going to be set up to maintain communication with the team members.
4. Describe the tools that are going to be used to monitor the goals, time frames or milestones.
5. Identify project milestones and activities. **Display this information using an appropriate tool.**
6. Create a budget and link the costs to the key milestones for a project.
7. Describe how you are going to divide tasks and resources amongst a project team. **Display this information using an appropriate tool.**
8. Briefly describe how the progress will be monitored.
9. How are current project records maintained? Who has responsibility for this? provide some recommendations on how this process could be improved.
10. Describe the current procedure for finalizing projects. Create your own procedure and identify how you will evaluate the success of the project.
11. Legislation that may affect the project including health and safety, and anti-discrimination legislation.

Best of luck...

المشروع:

مطلوب منك توثيق دورك في إدارة مشروع. قد يتم تعيين المشروع في بيئة تجارية أو اجتماعية أو رياضية أو عائلية ولكن يجب أن يكون بحجم مناسب. إذا لم يكن لديك مشروع فعلي لتكتب عنه ، فيمكنك إكمال المشروع افتراضياً. سيتمكن هذا التقرير من ثلاث إلى ست صفحات .

يجب أن يعالج تقريرك كل من القضايا التالية:

1. تحديد ووصف الغرض والنطاق والأهداف من المشروع. اعرض هذه المعلومات باستخدام أداة مناسبة.
2. صف كيف يتم إعطاء الفريق مخططاً تفصيلياً للمشروع.
3. وصف الاستراتيجيات التي سيتم وضعها للحفاظ على التواصل مع أعضاء الفريق.
4. صف الأدوات التي سيتم استخدامها لرصد الأهداف أو الأطر الزمنية أو المعالم.
5. تحديد معالم المشروع والأنشطة. اعرض هذه المعلومات باستخدام أداة مناسبة.
6. إنشاء ميزانية وربط التكاليف بالمعالم الرئيسية للمشروع.
7. صف كيف ستقوم بتقسيم المهام والموارد بين فريق المشروع. اعرض هذه المعلومات باستخدام أداة مناسبة.
8. صف بإيجاز كيف سيتم رصد التقدم.
9. كيف يتم الاحتفاظ بسجلات المشروع الحالية؟ من المسؤول عن هذا؟ تقديم بعض التوصيات حول كيفية تحسين هذه العملية.
10. وصف الإجراء الحالي لإنهاء المشاريع. قم بإنشاء الإجراء الخاص بك وحدد كيفية تقييم نجاح المشروع.
11. التشريعات التي قد تؤثر على المشروع بما في ذلك الصحة والسلامة ، وتشريعات مكافحة التمييز.

مع تمنياتي بالتوفيق..

NOVA WATER COMPANY (CCTV & Network PROJECT)

1-Introduction

Nova Water Factory is one of the most important and largest water producing factories in the Kingdom of Saudi Arabia and the Arabian Gulf, and the goal of the project is to install and operate surveillance cameras to monitor the progress of operations and ensure that the highest quality and safety standards are applied.

Project objective is to achieving the goal of the project at the required time and with the specified budget

Project Scope: Executing the installation works of IP network cameras and the addition related infrastructure, services, performing the required testing and commissioning works. The scope should be defined considering the following:

- 1- Project charter.
- 2-Requirements documentation.
- 3- Organizational culture, and structure.
- 4- Industry requirements.

Key Deliverables: 1200 IP network cameras. And all necessary equipment's

Key Milestones: December 2016: Project start, 2. April 2017: Completing phase 1 of the project with related networks and services. 3. NOVAMBER 2017: Completing phase 2 with related networks and Services.

High-Level Risks: running over budget, Delay in completing the project, Observing new requirements that may affect project budget negatively.

Project Success Criteria: Completing phase one and phase two of their defined milestones, Completing the project within the defined budget, Achieving customers' satisfaction regarding requirements and expectations.

Requirements Management approach: Requirements should be collected by interviewing and conducting questionnaires with identified stakeholders.

Requirements could be classified using affinity diagrams and mind mapping

Communication Technologies: Emails, reports.

Meetings: progress review, resolving issues and conflicts, and managing stakeholders' expectations and needs.

Risk Management Methodology: Engaging project stakeholders and project team should identify risks effectively in order to obtain a comprehensive risk register; Risks should be prioritized by using qualitative approaches considering the probability and impact of risks.

Project Executing: Direct and Manage project work processes to achieve continuously throughout the project phases.

Monitoring and controlling processes are carried throughout the project performed in parallel with all Project management processes.

Control Thresholds If Schedule Performance Index (SPI) is less than 0.7, then the schedule needs to be adjusted to consider the current progress status and plan how to recover the delays

If Cost Performance Index (CPI) is less than 0.88, then the budget should be re-evaluated, and more control actions should be applied on site.

Project manager performed to close the project or phase process twice, once after Completing phase one and the other after finalizing phase two and all remaining works.

Ensured that the lessons learned are collected and archived to be used in future projects.

2. Literature Review

Earned Value Management EVM has become a viable tool to measure project performance over the last four decades. Its ability to effectively monitor projects budget is widely accepted in the industry and academia. However, this tool has limitations that deserve attention. For example, its Schedule Performance Index SPI has a complete reliance on cost. This complete reliance on cost coupled with overlooking the fundamentals of (CPM) and its duration calculated approach to project performance may lead to misleading information. This paper examines instances where project SPI and CPM duration provide conflicting schedule indicators that could result in wrong decision-making. The SPI may sometime indicate that a project is ahead of schedule, while the CPM calculations show that the project is behind schedule. A simulation was created to generate project schedule scenarios in which SPI and CPM calculations provided conflicting schedule information. These scenarios were further examined to determine the cause of conflict between the two indicators

3. Methodology

Schedule performance index. The schedule performance index (SPI) is a measure of schedule efficiency expressed as the ratio of earned value to planned value. It measures how efficiently the project team is accomplishing the work. It is sometimes used in conjunction with the cost performance index (CPI) to forecast the final project completion estimates. An SPI value less than 1.0 indicates less work was completed than was planned. An SPI greater than 1.0 indicates that more work was completed than was planned. Since the SPI measures all project work, the performance on the critical path also needs to be analyzed to determine whether the project will finish ahead of or behind its planned finish date.

4. Results and Discussion

Shorten the schedule duration without reducing the project scope, in order to meet schedule constraints, imposed dates, or other schedule objectives

Using SPI and CPI methodology was very useful to figure out where the project stands on, and when we can use Crashing or Fast- tracking

5. References

1. PMBOK GIUDE 6th edition
2. PMI.ORG
3. www.researchgate.net