



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

Student Name	YASSER MAHDI ALI ALARAFAT	اسم الطالب
Students I.D	202100072	الرقم الجامعي

Section

Master

Date

Thursday

18 / 03 / 2021.

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 line spacing 1.5
- 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. سيتمكنون 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..

Power Supply Project to TPS-Baker Hughes Facility in Dammam

Introduction:

Baker Hughes Company has been operating in Saudi Arabia for more than 70 years supporting the kingdom economy by providing the best of art technology on the field of drilling services. One of the collaborative goals in response to Saudi Aramco IKTVA (The in-Kingdom Total Value add program) is localize the assembly, overhauling and other related manufacturing services inside the kingdom.

BH has introduced to Saudi Aramco to localize one of the product company called Turbomachinery and process solution responsible to provide the assembly and manufacturing of the compression train which a highly sophisticated product used to pump the air and gas for a long distance. The testing and commission activities of the major parts of the compressor train has been doing at the mother company in Italy and to support IKTVA and company decided to make the first testing facility in Saudi that support not only Saudi projects rather than MENATI region.

The facility construction project started in March 2018 and with very tight milestone to complete the project by year end. One of the requirements to provide sustainable power supply to the facility to make sure permanent and sustainable power is required during the testing activities as the power failure during the testing will cause the major parts to fail and hence losing millions of Riyals.

The facility was running at Generators and I was assigned as project manager to start the project of power supply to the facility by collaborating the design office consultant, review the scope of work, appointing construction contractor and testing and commissioning of the entire parts of the project and later sign off and handover.

One of the important part to success of the each project is to identify project milestones and activities at the planning stages. Several empirical studies have explored correlations between project success and project planning. They confirm planning's importance. One of them finds a positive correlation between planning standards and project success (Dvir & Lechler, 2004)

In this research will discuss how the project milestones is important for each project and how to link it to the project success.

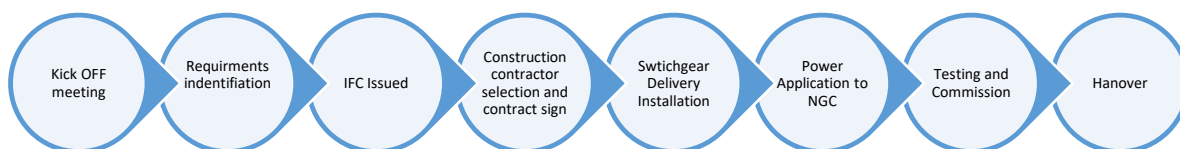
Literature Review

Milestones and activities planning definition plays an important part of the project success. Studies shows that A good and balanced project plan is a crucial success factor for a project, as insufficient resource planning and unrealistic schedules count for 30 % of the reason when looking at why projects fail (1). For this project and to meet the key milestone for the testing activities of the compressor train, the following criteria derived from the PMBOK. The ideal benefits of the below is make sure that the project is on track and any corrective action required to in case of creep that action can be taken to correct the path.

- Plan Schedule Management
- Define Activities
- Sequence Activities
- Estimate Activities Durations
- Develop Schedule
- Control Schedule

Methodology

As there is an existing design consultant office responsible to receive the requirements and transfer them to IFC drawings. The major milestones are as per below and there are associated activities and tasks needed to complete to announce the completion of a single milestone



The kick off meeting is the key of this process and related stakeholder and people who are involved to achieve part of the project are invited to attend the meeting. Once the meeting is completed, certain activities by the project design office are required to complete to close the second and third milestones. GRO plays an important part project which is the coordination with National Grid Company to apply for the power supply and later on get the connections fees and pay it once approved by the project sponsor.

The IFC drawings for this project have been agreed on the kick off meeting to close them within three weeks after the kick off meeting. These drawing needs to have proper format to be accepted by the National grid company where control schedule needed to make sure these activities are within the agreed time. Following the IFC drawing issuance and RFP is sent to different contractor to be bidding. The activities under this milestones are identified and sequence also. Once the bidders submit their bids, an internal review for all of the submittals are required to make sure that all scope are captured in their proposal and recommendation for contractor selection and sign off the contract is done.

Last milestone before the project sign off is the testing and commission of the entire project and power energization and handover to the maintenance team.

Below is the details activities against each milestone required:

Milestone	Start Date	End Date	Remark
Kick off meeting	10 th October 2019	10 th October 2019 th	Attendees are Design consultant project Manager, Electrical Engineer, CAD Operator, GRO, Manufacturing team, Maintenance tea,

Requirements Identification	12 th October 2019	18 th October 2019	BH Project Manager, Manufacturing Team, Maintenance Team
IFC Issuance	12 th October	25 th October	Final review submittal on 25 th October
Construction Contractor Selection	27 th October	6 th November 2019	Last day for contractor recommendation is 9 th November 2019
Power Application to NGC	25 th October		The application to power supply can be done once the IFC are ready
Switchgear Delivery	25 th February 2020		
Testing and Commission of the entire project	15 March 2020	19 March 20220	
Handover	25 th March		

Results and Discussion

As illustrated in the above table, the project miles stones and activities identification plays an important part of the project success. There are multiple process applied to this project to make sure proper identification and monitoring to the a match the plan. Although there are more difficulties arising while we are progressing with the project especially with the external parties where there are no control over it, however, this did not affect the critical path of the project and the project was announced successfully and the first train

compressor testing and commission event with Saudi Aramco has been a successful one in the presence of the VP.

References

Dvir, D. & Lechler, T. (2004). Plans are nothing, changing plans is everything: the impact of changes on project success. *Research Policy*, 33(1), 1-15.

The Standish Group International, Inc. (2015). *CHAOS REPORT 2015*

PMBOK Book 6th edition.