



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

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Section

Master

Date

Thursday

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Course Code

(PMG506)

Advanced project Management

Instructions:

- اخر موعد للتسليم هو يوم الخميس ٨-٥-٢٠٢١ 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 ١٢.
- 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. Dr. Akram M. S. Ali

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 One 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 **احد** القضايا التالية:

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

مع تمنياتي بالتوفيق..

Restoration of Saudi Aramco Abqaiq Plant which Exposed to Attacked

Introduction:

Saudi Aramco's Abqaiq Plants facility is the company's biggest oil processing and crude stabilisation facility. With a capacity of 7 million barrels per day, the facility is the primary oil processing site for Arabian extra light and Arabian light crude oils.

The Abqaiq Plants facility handles crude pumped from the Ghawar field. It is linked to the Shaybah oil field through a 395-mile pipeline and to the export terminal in Yanbu through a natural gas liquid pipeline.

The Abqaiq Plants facility comprises of three primary processing units – an oil processing unit, an NGL facility and a utilities unit. The oil processing unit consists of multiple spheroids and 18 stabilizer columns. After the facility was attacked, four devices were decommissioned due to serious damage, resulting in the suspension of crude oil supplies by about 5 million barrels, or about 50% of the company's production.

As a project engineer of this project, the **purpose** is to assess the damage caused in the columns, the possibility of repairing them and the duration needed to restart them.

The scope of work included a site survey about which columns need to be fixed or replaced and determining how to remove the damaged columns, assessing the damage rate in each column and then repairing them.

The objective is to restore the damaged columns after repair to the operational process within two months.

Literature Review:

The scope of work might be the most important part of a repairing agreement – even more important than the price. Without a defined scope of work, there's no way to know what work must be done. That means it's incredibly important to establish the scope when contracting to show what tasks must be done, and who's responsible for those tasks.

And we consider some elements of the scope of work (1) such as following:

- **Milestones and deliverables** should detail all the expected goals that need to be completed like provide a clear understanding of the project requirements such as what parts of the column will change, how much damage to the column, how long is expected for materials to arrive that must be changed in the column.

- **Technical details** regarding the precise tasks and their technical aspects like general arrangement drawings & design calculation of the columns, also provide method of statement for the completion of work along with evaluation criteria.
- **Scheduling** a general list of tasks, and related tasks for the project and when they are expected to be completed.

According to what I mentioned previously we created a timeline or a Gantt chart (2) to show milestones of our project, Look at our Gantt chart alternatives as well.

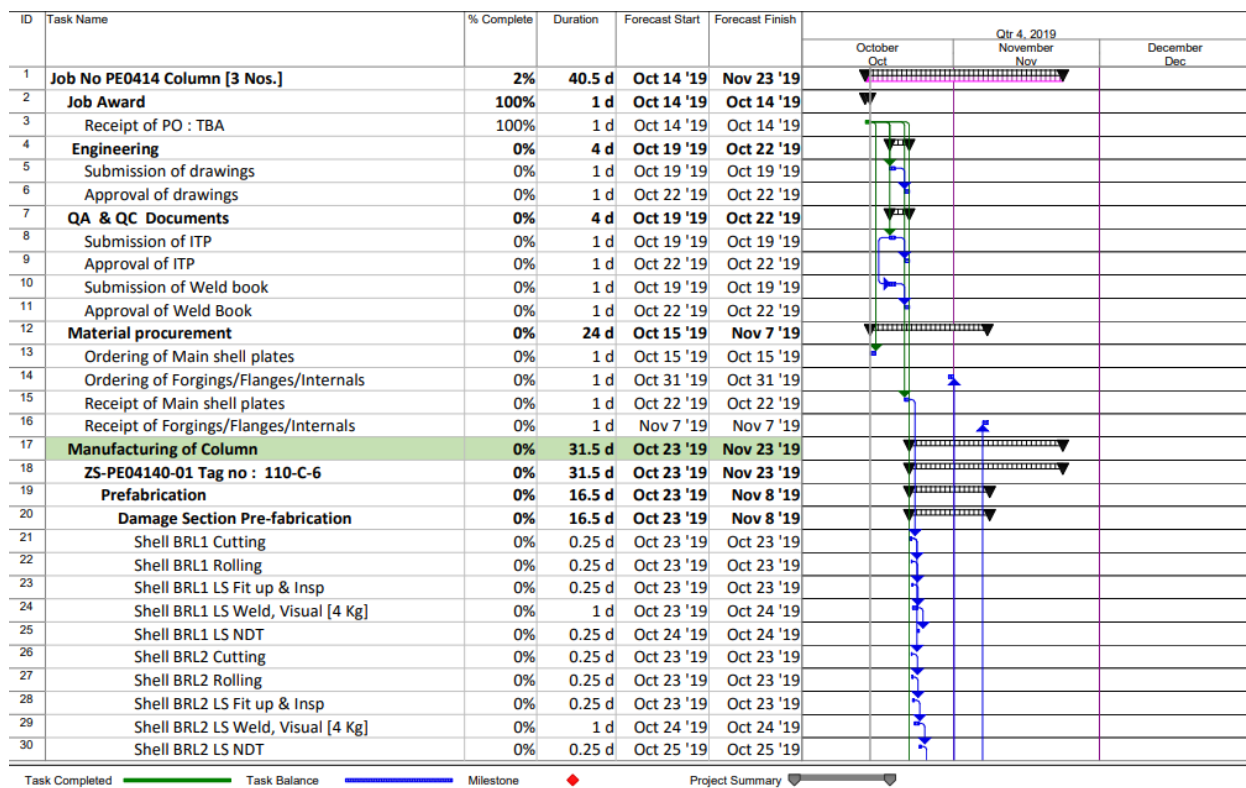


Figure (1)

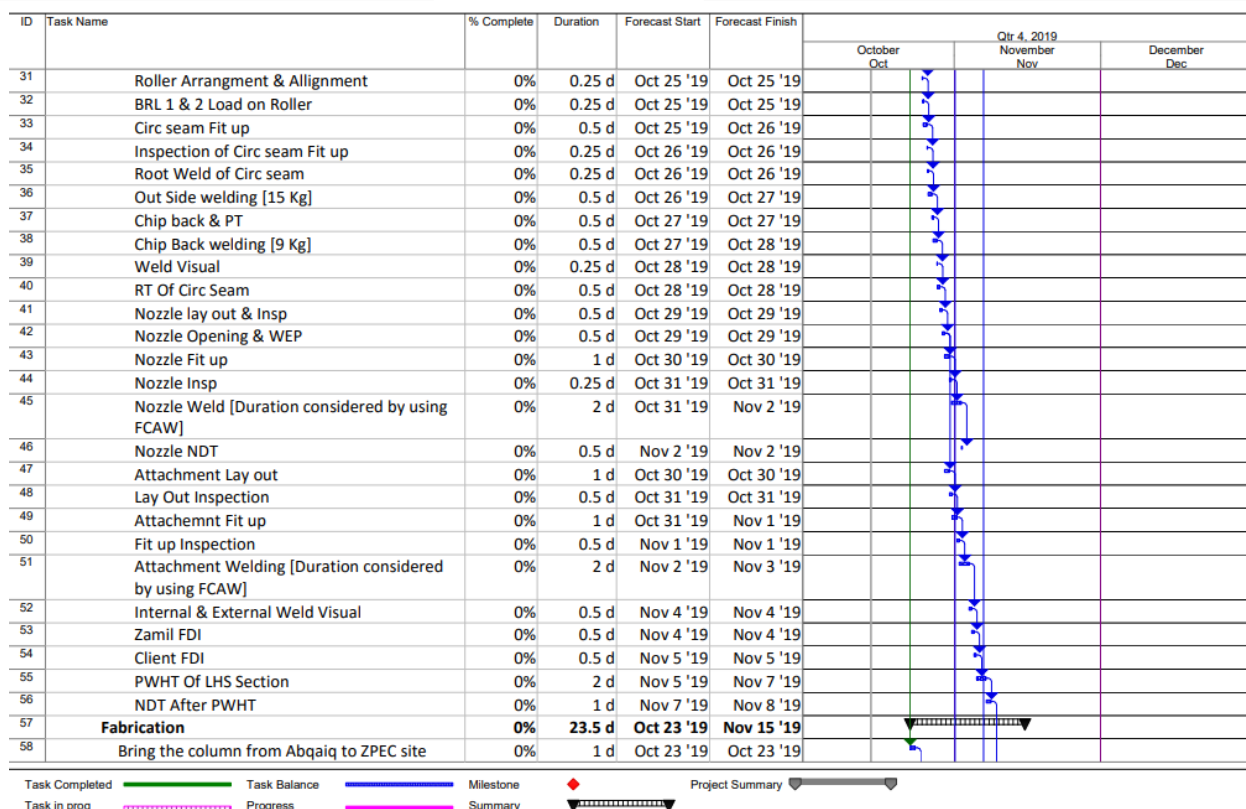


Figure (2)

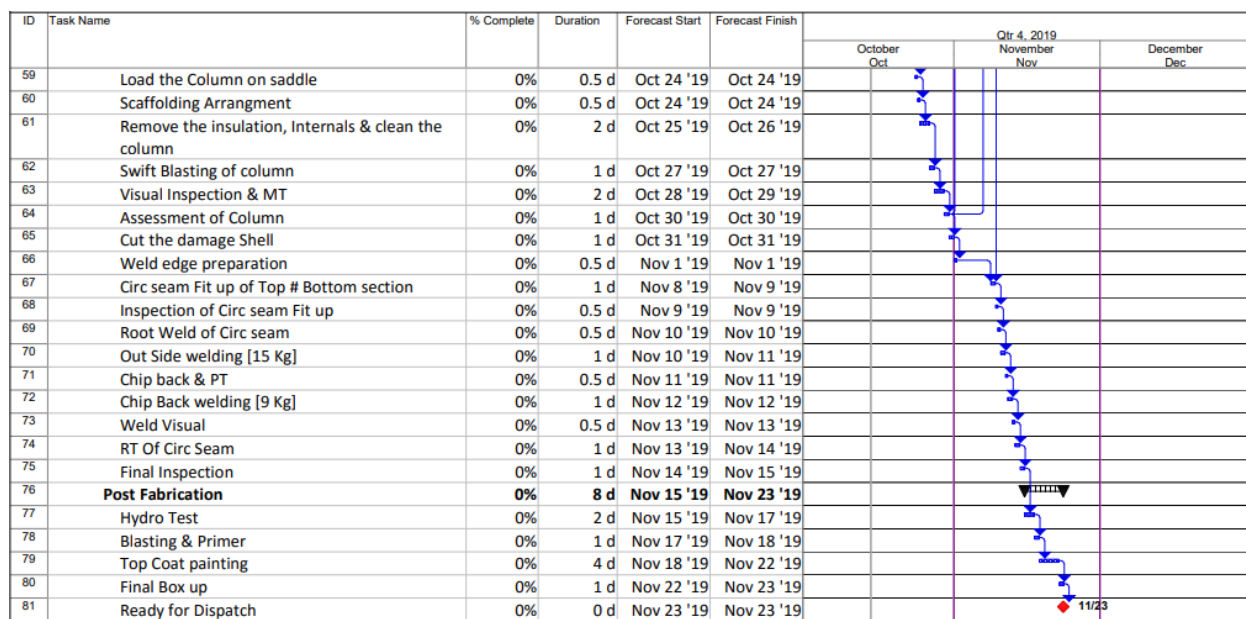


Figure (3)

Methodology:

The aim of the research, an exhaustive and systematic search of the literature related to maintenance and repair of any project that has been damaged or caused by external factors by using Saudi Aramco standards as well as ASME (3). Based on these standards we evaluating and changing the damaged parts according to approved standards and specification or replacing the columns that have been the most damaged because repairing them will be extremely high costs.

So, the main objective of this research is to show how to make a decision in such difficult circumstances as turning the purchase decision into a reform decision.

Results and Discussion:

executing repair work, for example, by setting a lower limit in a condition rating scale and thereby setting norms for the maximum performance loss. Project manager are able to do so by forecasting the condition status of repairing components after executing assessment activities, dealing with more and less acceptable remaining defects. To perform efficiently and effectively, the performance of a repair damage component after executing assessment work should be clear. However, general knowledge about repair activities and performance recovery is scarce. After an integral replacement of the damaged component, the condition status will be as new. In case of partial replacements and repairs, the condition gap and the performance recovery before and after execution of the repair activity are indistinct. The new condition depends on the solved defects at that particular moment of time.

At the completion of the project, all those who worked on the project agreed that repair or emergency projects are expensive and complex projects, they are projects that differ from natural projects because they need to be highly efforted and need to follow up on daily tasks and activities, whether in procurement, manufacturing or inspection, as well as providing daily reports to the customer with all the work done in accordance with the agreed manufacturing schedule.

Reference:

1. Initial Project Coordination and the Project Charter (Lecture 6)
2. Gantt Chart or Fabrication schedule from our company (Zamil Steel)
3. Aramco Specification: 32-SAMSS-004; SAES-W-010