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Project Management Assignment 1

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Date: 7 February 2017

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Executive Summary

In today's day and age, engineers are expected to be versatile in more aspects than ever before. One of these is project management. This assignment hopes to introduce and ready engineering students for project management and as close to reality as possible. For example, the teams of students are multi-disciplinary, and had most probably not had prior experience working together.

For this particular assignment, a project structure / 'blueprint' has been designed in order to manage the creation of a beer brewery.

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1 Introduction
2 Project Scope Statement
2.1 Project Objectives
2.2 Deliverables

2.3 Milestones

Table 1: Milestones

Milestone	Critical Path Tasks	Task Group	Task Duration (Days)	Target Date
1	Evaluate Market	Market Assessment	12	27-04-2017
	Develop Business Opportunity		14	
	Customer Preference Study		21	
	Business Evaluation (NPV, etc.)		4	
2	Design and Development Plan	Design	6	06-06-2017
	Design Specifications		22	
3	Advertising Campaign	Commercialization	28	14-07-2017
4	Design Labeling	Design	5	03-08-2017
	Approve Design		4	
	Initial Engineering Specifications	Engineering	5	
5	Design Verification Activities	Engineering	7	01-09-2017
	Verification Design Review		4	
	Release Pre-production Specifications		10	
6	Build Functional Model	Engineering	18	27-09-2017
7	Issue Sample (Production Equivalent)	Procurement	5	24-10-2017
	Perform Supplier Process Capability	Supplier Quality	14	
8	Process Engineering Plan	Manufacturing	15	14-11-2017
9	Validation Design Review	Engineering	4	24-11-2017
	Approve Model Design		4	
10	Qualify Supplier	Supplier Quality	10	08-12-2017
	Design Transfer Activities	Engineering	7	
	Product Release Meetings	Engineering Quality	3	
11	Develop Production Control Plan	Manufacturing	8,5	08-01-2018
	Approve Production Parts		5	
	Contracting for Deliveries		8	
12	Submit Production Purchase Order	Manufacturing	2	31-01-2018
	Production Pilot Test		5	
	Debugging Production System		4	
	Production Release		3	
	Product Launch	Commercialization	3	

2.4 Work Breakdown Structure

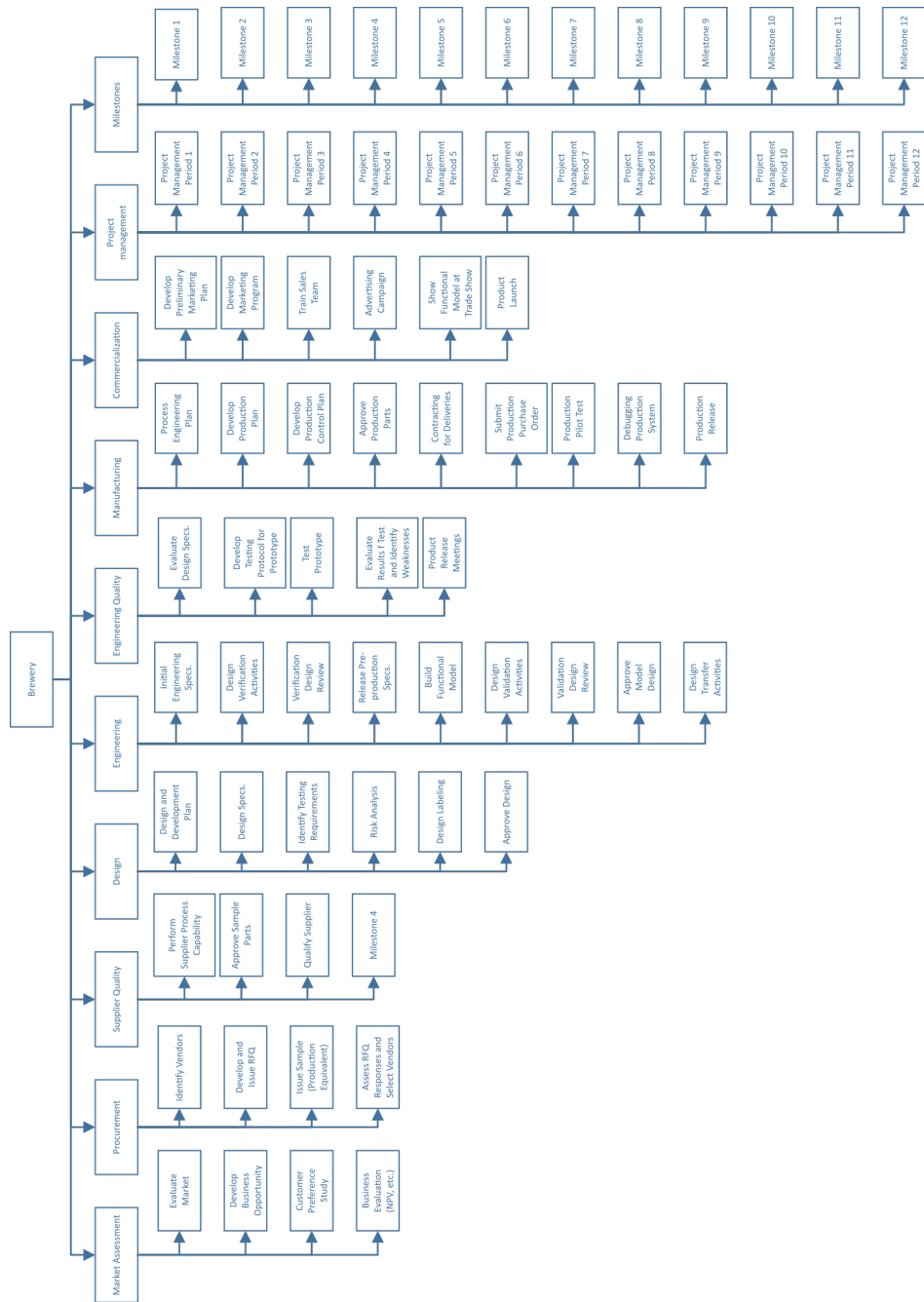


Figure 1: Work Breakdown Structure

2.5 Technical Requirements

2.5.1 Summary of product

There are four types of beer that need to be manufactured namely: Weiss, Ale and two different flavoured lagers. All the beers utilize the same brewing system with slight alterations needed to create each unique beer. These alterations include different fermenting processes and different grains used. There needs to be four brewing systems working simultaneously in order to produce a sufficient amount of all beers.

2.5.2 Product Requirements

- There should be 4 varieties of beer
- Each beer will be sold in 500ml glasses
- The temperature of the beer should always be carefully monitored from the brewing process until the product is sold to the customer
- Control systems should be put in place in order to monitor and control each stage of the brewing process
- The quality of the final product needs to be of a high standard in order to compete in the respective market
- The final product should be marked at a reasonable price in order to appeal to a wider target market (students)
- The process comprises of 12 stages that need to be carefully executed in order to produce the best possible product

2.5.3 Project Requirements

- Project commences 20th February 2017 and terminates 3rd May 2017
- All the suppliers of the company should be identified and have their capabilities assessed
- The final product must be designed completely. The components should include specifications, risk analysis, design analysis, production process and possible testing requirements.
- A full quality assessment must be done throughout all stages of production of the final product

2.6 Limits and Exclusions

2.6.1 Limits

2.6.2 Exclusions

2.7 Review and Approval

3 Project Baseline Plan

3.1 Baseline Commentary

4 Project Budget

4.1 Training and Events prospective costs

4.2 Direct Resource Costs

5 Risk Assessment Plan

5.1 Risk identification

5.2 Risk Classification

Appendices

Appendix A: Budget Documentation and Analysis

A.1 Direct Resource Costs

A.2 Training Costs

A.3 Other Managerial Decisions

Appendix B: Risk Register

Appendix C: Meeting Minutes