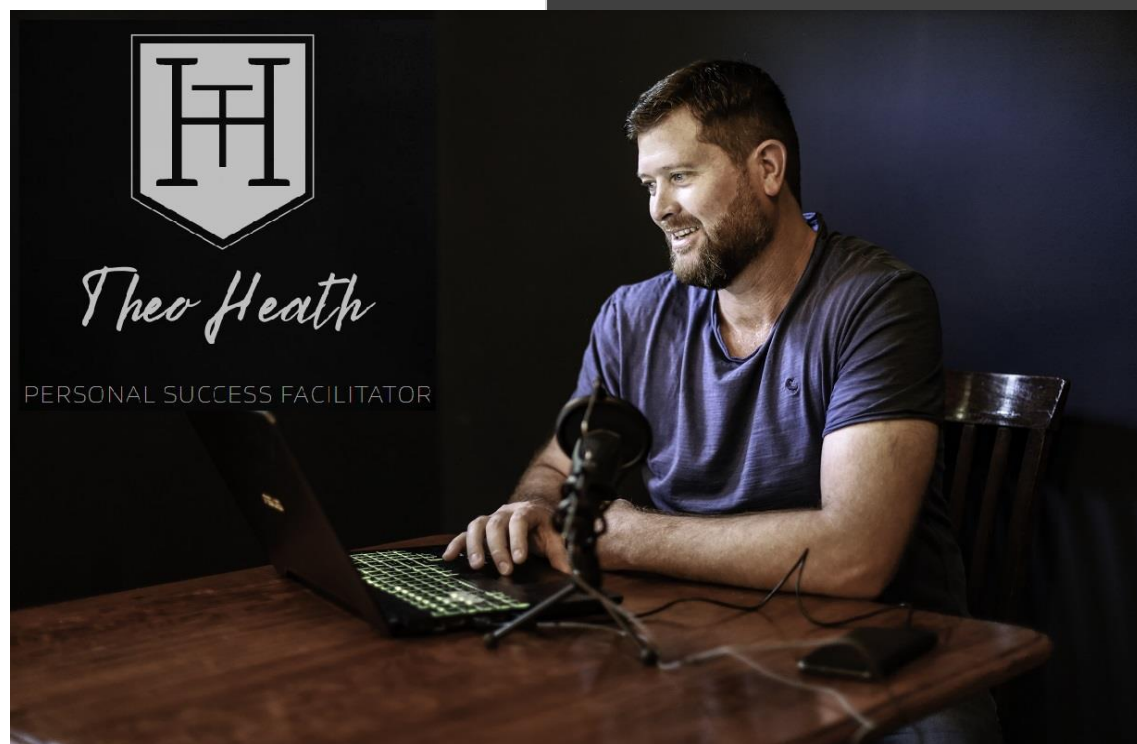


# 2021

## Introduction to Project Management



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Contents

**Definition of Project Management**.....2

    What is a Project.....2

    History of Project Management.....2

**Project Management Triangle** .....2

    Scope.....2

    Cost.....3

    Time.....3

    Quality .....3

**Project Lifecycle**.....4

    Planning .....4

    Execution.....4

    Closeout .....4

## Definition of Project Management

### What is a Project

A project is a single event with a start and an end date, organizing several activities to make out the project scope. The success of the project will be determined by completing all the tasks that make out the total project in time, within the given budget and to a good quality, these are the constraints.

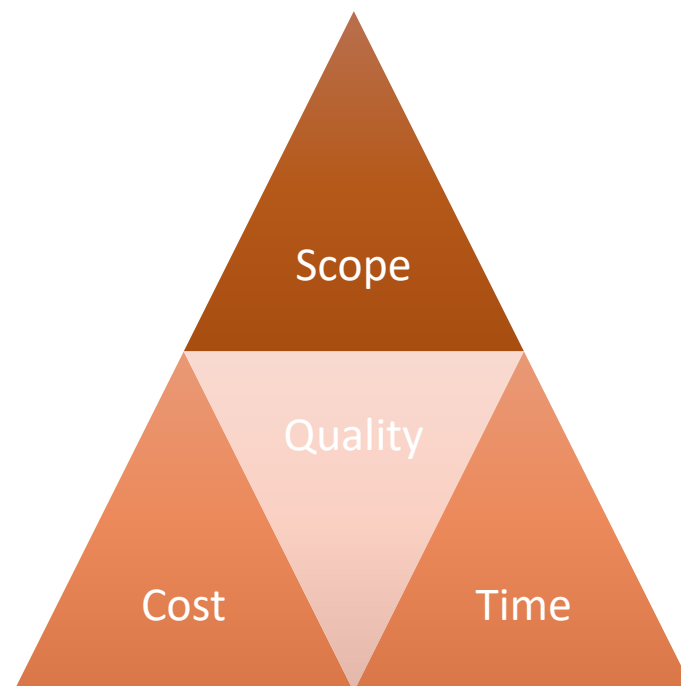
### History of Project Management

The construction industry started using project management tools to complete project with more success. The goal was to give activities a duration and sort them in a critical path to determine the total duration of the project, more commonly known as the work breakdown structure. Project management developed from there over the past years, being used in all industries. Project management tools are constantly reviewed and updated, the goal is to deliver a good quality project on time and within the budget.

## Project Management Triangle

### Scope

The scope of works refers to the services and supplies required to complete the tasks that make out the project. This will include working to specifications, standards, and requirements to complete the perfect task.



## Cost

During the planning phase of the project a predicted cost is calculated looking at the cost of each activity. The items are specified with quantities and costs to complete a project cost outline. During the execution of the project, we compare the actual cost to the predicted cost to manage the budget and forecast the likelihood of going over budget.

## Time

Time management can start by dividing the project into smaller activities, use the smaller activities to create a critical path. Describe the activities then determine the early start, duration, and the early finish of the activity. Compare this to the late start, duration, and late finish. With this information you can create a Gantt chart with a critical path. We manage the project program with the Gantt chart, making sure to stay on schedule.

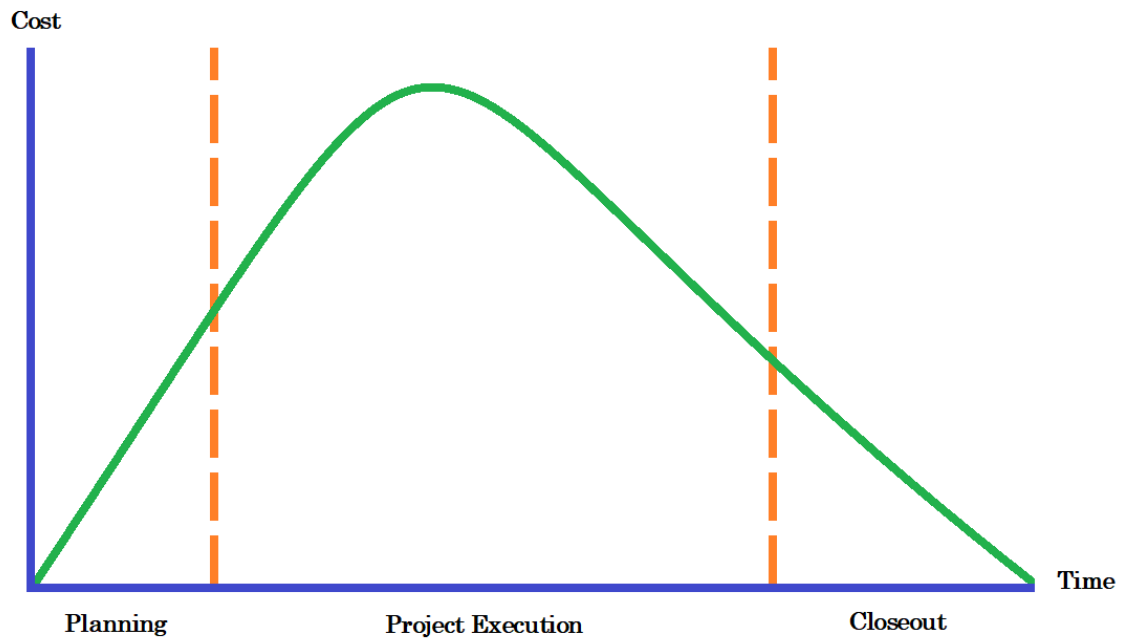
## Quality

Create a project quality control plan using quality methods and processes with the aim to ensure a quality product.

# Project Lifecycle

## Planning

The planning phase is the first and a particularly important phase. The project documentation is completed during this phase, including the design, project program, costing and specifications.



## Execution

After the planning phase we start initiating and executing the project works, during this phase we are constantly managing the program, costing and quality to complete a successful project.

## Closeout

The closeout phase is as important, we analyze the project during this phase and identify delays and project setbacks to procure documentation and improve future project management processes.