



# PRACTICAL TRAINING 2

DECEMBER 2012

## ABSTRACT

From the 30th November 2012 - 14th December 2012, I worked for the Quantity Surveying Team for PRO-MAN (Mauritius) LTD at the New Airport Terminal in Mauritius. The report was compiled to show the experienced gained during the training. It was to be submitted to the Construction and Economic Management Department of the University of Cape Town following the end of the training period.

## Course Code

CON2013X

## Table of Contents

TERMS OF REFERENCE .....	2
1. INTRODUCTION.....	2
1.1. Subject and Motivation for Report .....	2
1.2. Objectives of Report .....	2
1.3. Plan of Development.....	3
2. TASKS CARRIED OUT .....	3
2.1. Week 1 .....	3
2.2. Week 2 .....	3
3. BENEFITS OF TRAINING .....	4
3.1. Skills Gained .....	4
3.1.1. Measurements.....	4
3.1.2. Communication.....	4
3.1.3. Site inspections .....	4
3.2. Knowledge and Experience Gained .....	5
3.2.1. Measuring process .....	5
3.2.2. Site inspections .....	5
3.2.3. Negotiations.....	5
4. EMPLOYER LETTER .....	6

## TERMS OF REFERENCE

From the 30th November 2012 - 14th December 2012, I worked for the Quantity Surveying Team for PRO-MAN (Mtius) LTD at the New Airport Terminal in Mauritius. The report was compiled to show the experienced gained during the training. It was to be submitted to the Construction and Economic Management Department of the University of Cape Town following the end of the training period.

The Construction and Economic Management department instructions were as follows:

1. 160 hours (4 weeks) of approved experience employed in any of the built environment disciplines (construction; engineering; housing; property development and management; quantity surveying; relevant local authority, provincial and national government departments)
2. Provide information with regards to activities performed during training
3. Describe tasks carried out
4. Describe benefits of the training
5. The report should be submitted by March 2012.

## 1. INTRODUCTION

### 1.1. Subject and Motivation for Report

This report is on a 2 weeks practical training at PRO-MAN (Mtius) LTD at the New Airport Terminal in Mauritius from the 30th November 2012 - 14th December 2012. The report showcase knowledge, skills and experience gained during the training and how this will help me in my career.

### 1.2. Objectives of Report

The objectives of this report are therefore to:

- Provide a log of detailed activities carried out during the training.
- Provide information to show how some skills and experience were gained throughout the training.

### 1.3. Plan of Development

The report begins with an introduction as to why it was necessary and to what purpose it serves. It then focuses on various tasks carried out daily. And to end with, skills and experience gained during the course of the training period are discussed.

## 2. TASKS CARRIED OUT

### 2.1. Week 1

During the first week of my training, I was updated with the construction of the new airport terminal and how things have been going on site. I familiarised myself with the drawings and plans of the terminal. I was also given a list that contained all the variations and omissions which occurred during the construction process. Since most of the big construction processes that is foundation, structural and roof construction has already been done and finalised, there was not so much measuring regarding these.

Therefore I helped in measuring and calculating variations mostly. During this process I had the chance to see the negotiation between the client and the contractor. It was my duty to find out if the price that the contractor was asking for the variations were reasonable and if not to report to the Quantity Surveying Team. Further actions were then taken in investigating these cost implications. I also calculated how much variations would cost before handling them to the contractor. In this way we had an idea beforehand what amount we should include in the monthly report regarding variations. An example of a variation that I measured was the length of power cables that needed to be fit in the ceiling since the architects moved the power supply plug points.

Along with these measurements and calculations, I carried out site investigation with the Inspection Team on site to keep a record of the progression of work. Some construction faults were found namely in the waterproofing of windows and these faults were recorded and reported to the project manager and the contractor.

### 2.2. Week 2

During the second week, I initially carried on with the measurement and calculations of variations. I was then introduced with how to calculate cost implications of omissions. This gave me the opportunity to measure mostly finishes that were not required anymore and would save money on the project. In some cases the contractor already started and I had to go on site to find out how much work had been already carried out and then measure the amount that could be saved if any. One of the omissions concerned the

removal of an internal garden and it was actually being built. So this required a lot of time and negotiations between the client and contractor.

Furthermore during the second week, I updated bottlenecks and issued definition and chronology of works that has been going on from the beginning of the project. My job was to find out if any work that still needed to be done was actually completed or if not update the list and send it to the project manager.

I also had the chance to work with the project manager on a few occasions. We once went to investigate the amount of people working on site. It was a safety issue and we counted all the workers and it was found out that there were too many people on the site. This issue was later raised with the contractor and appropriate measures were taken to avoid any safety problems.

After this I carried out some site inspections with the Inspection Team and continued with the calculation with cost implication of omissions.

### 3. BENEFITS OF TRAINING

#### 3.1. Skills Gained

##### 3.1.1. Measurements

I measured many items during the training period: concrete work, blockwork, finishes among many more. Measuring was the activity that I did the most during these weeks. I think that I was exposed to different type of measurement and this greatly helped improving my measuring skills.

##### 3.1.2. Communication

During the course of the training I interacted with people from different countries. The architects were French, the client was Mauritian, the company that I worked for were American and the contractor was Chinese. So I gained a lot from talking to all these people and developed my skill concerning talking in a professional work environment.

##### 3.1.3. Site inspections

The frequent site visits that I carried out with the Inspection Team helped me realise and pay attention to every single detail of what is happening on site. They showed the techniques to look for errors and constructions faults. I think this greatly helped me pointing out mistakes that would go unnoticed to amateur eyes.

## 3.2. Knowledge and Experience Gained

### 3.2.1. Measuring process

I learnt how the variation and omissions process worked and the amount of work it requires. I had the opportunity to measure works more than a million USD and this make you realise how important your job is. This means that you have to be very careful while measuring. At first this put under a lot of pressure but if you are confident in what you are doing and have the proper knowledge, you can do a great job. This immense project definitely gave me that extra confidence and helped measuring under pressure.

### 3.2.2. Site inspections

I learnt how to inspect properly and efficiently on site while the construction is still in progress. This reduces the risk of unpleasant surprise once the final product has been handed over to the client.

### 3.2.3. Negotiations

During the training period, I had the chance to attend a few meetings. I was also working with one of the senior quantity surveyors and as soon as there was a discrepancy between the quotations from the contractor to ours, there was a lengthy negotiation and I learnt that the faster you solve an issue the more money you will save.

## 4. EMPLOYER LETTER



PRO-MAN (Mtlus) LTD

14<sup>th</sup> December 2012

### **TO WHOM IT MAY CONCERN**

This is to confirm that Yudish Sumputh has been on training in our site offices at the New Terminal Project at SSR International Airport Mauritius from 30 November to 14 December 2012.

Yudish has spent his time assisting the Quantity Surveying Team with the measurements and calculation of variations, updated bottlenecks and calculated cost implications of omissions. Yudish also had the opportunity to carry out site inspections along with our Inspection Team and gain additional knowledge on Airport Terminal Construction.

We are pleased to have Yudish with us again on the project and have offered further assistance in the future if required.

James O'Keeffe

Director

2<sup>nd</sup> Floor Fon Sing Building, Edith Cavell Street, Port Louis  
Telephone No. : 255 8246  
Email : proman@intnet.mu