



اُونِيُوَرَسِيْتِي تِيكْنُولُوْجِي مَارَا
UNIVERSITI
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MARA

FACULTY OF CIVIL ENGINEERING

**INDUSTRIAL TRAINING REPORT
(LEMBAGA PELABUHAN JOHOR)**

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MARCH 2021

ABSTRACT

The name that given since I was born is Muhammad Fahim Imran bin Mohd Fadzli. My student id card is 2018241786. The current semester for my study in diploma of civil engineering is semester 6 and been consider as the last semester for this program. The university that I choose for my diploma certificate is Universiti Teknologi Mara that recite at Bandar Seri Alam, Pasir Gudang, Johor. This internship report is contains four chapters in which I try to explain all 4 months that full of experience that is the eye opener for my scope of civil engineering knowledge. My internship company is Lembaga Pelabuhan Johor Jalan Mawar Merah 2, Pusat Perdagangan Pasir Gudang 2, 81700, Pasir Gudang, Johor. The first chapter of this report contain the introduction of the industrial training subject and the company organization background. Then, second chapter which is containing the weekly summary for my 4 months of training. The third chapter is about the technical report of my industrial training and the experience that I gained from it. The last chapter of this report containing the overall conclusion for the whole 4 months of internship program.

ACKNOWLEDGEMENT

First thing first, I like to say Alhamdulillah to the merciful one, to give me a chance of study and complete my diploma of civil engineering course with ease. More specific the Industrial Training (ECM377) programmed.

Next big thanks go to Sir. Mohd Firdaus bin Mohd Akhbar and Ahmad Idzwan bin Yusuf as my Industrial Training Coordinator and faculty supervisor for this program (ECM377). Thank you very much to him for being generous about the knowledge about everything related to this program theoretically and practically. Not forgetting Universiti Teknologi Mara especially Faculty of Civil Engineering for giving me a chance to continue my study.

Next big appreciation to my company, Lembaga Pelabuhan Johor and my company supervisor, Encik Junaidi Baghdadi bin Mohamed. Adventure has been cooperating very well with me by giving permission to receive me as trainee in their company. They have guided us along 4 months either at site or office, even at outside of office hour. Without their generous help, we might not be able to complete this semester with flying colour.

Last but not least, my deepest gratitude and thankfulness are dedicates to my family for their prayers, support and their encouragement to me, so that I can stay strong to complete the course that I take. Not to forget my friend that help me when there is trouble regarding the course that I participated myself in, and also my industry supervisor who helped and support me with the knowledge that I need for the use of future study. With all this person help, I can stand tall and said that I did great to complete my Industrial Training (ECM377) course.

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CHAPTER 1: INTRODUCTION

1.1 INTRODUCTION

With the new transformation 2050 that being launch recently by our prime minister, new development plan to transform Malaysia so that can compete with other well-known country that has a high standard life.

To achieve the transformation, new development of building and life style need to done as soon as possible, so that the citizen of Malaysia can prepared the outcome of the drastic change.

Civil engineer is a work scope that focused on designing and constructing new building that need to comply with the helping hand of architect. Not only that, civil engineer work can be scope with the maintenance work that involve around structure and infra-structure work. Based on that, this scope of work has been used with more efficient so that the transformation of 2050 can be realize sooner that we can imagine.

Industrial training is a training that being proposed for every university program to let the student experienced the real-life situation of what they will experience and the hands-on situation for all the subject that been thought through all the semester of studying.

With all this combined, the needed of industrial training for all student, so more professional engineer can be produced with the collected experience that been thought, and also with the help of in-situ engineer that educate the student throughout the internship.

1.2 COMPANY BACKGROUND

COMPANY PROFILE

Company Name Company Address
No Phone

Table 1.2.1

- Lembaga Pelabuhan Johor or the Johor Port Authority (JPA) was established on the 1st of January 1975 under the Port Authorities Act 1963. JPA commenced operations in 1977 and is the first port in Malaysia that features a free trade zone. Since its establishment, JPA has experienced a remarkable progress.
- Due to the need of meeting high demand, coupled with the limited coastal area in Pasir Gudang, the Government has taken steps to open up another port in Tanjung Pelepas, on the west region of the state. The government has also given approval to a private company to plan, build, operate and manage the port. The second port project started in 1995. In 1999, phase 1 was completed and began its operation in October 1999.
- Johor Port Authority is also responsible for managing the Tanjung Belungkor Ferry Terminal (TFTB) in Kota Tinggi and Changi Ferry Terminal (TFC) in Singapore. Both terminals have been built to promote tourism activities in Desaru and was commissioned on 8th of September 1993. The first RORO ferry service was carried out by Ferrylink until 8th of April 2002. The RORO ferry services has been discontinued and only scheduled passenger ferry operates between the two terminals. Passenger ferry services are currently provided by Limbungan Maju. While Tanjung Belungkor Ferry Terminal is now managed by Marina Island Venture Capital Sdn. Bhd. Apart from routes to Singapore Changi Ferry Terminal, Tanjung Belungkor Ferry Terminal also provides passenger ferry services to Batam and Tanjung Pinang in Indonesia.



Figure 1.2.1 Company office location

Vision

- Our vision is to be the leading port authority driving Johor as the preferred port.

Mission

- To regulate and facilitate maritime industry to enhance the competitiveness of ports in Johor.

Objectives

- To strengthen the development of port infrastructure capacity in line with the needs of customers and stakeholders.
- To enhance the efficiency and effectiveness of port security, health and environment control.
- To strengthen human capital competencies in port and marine knowledge and skills.
- To create a port environment and community that promotes business.

Motto

“Professionalism Enhances Service”

Code of Ethics

H	<i>- Respect among fellow workers</i>
I	<i>- Integrity as pillar of our identity</i>
K	<i>- Committed in performing our duties</i>
M	<i>- Consultation as our settlement policy</i>
A	<i>- Accountability in performing our responsibilities</i>
H	<i>- Harmony in every aspect</i>

1.3 ORGANIZATIONAL STRUCTURE



Figure 1.3.1

1.4 NATURE OF THE BUSINESS

1. Ensure application for ancillary services licenses, private jetty licenses and pilot licenses are issued within 10 working days from the date of receipt of completed application.
2. Ensure pilotage exemption application approval letter to be issued within 7 working days from the date of receipt of completed application.
3. Issuance of acceptance letter to the successful bidder within 3 months from the request for quotation closing date.
4. To approve work permit application within 24 hours of receiving the request.
5. Ensure acknowledgement of inquiries or complaints from customers within 2 working days.
6. Ensure feedback on inquiries or complaints are made within 14 working days from the date of complaints or inquiries are received.
7. Ensure that suppliers receive payment within 14 working days from the date of claims.

1.5 PRODUCT COST

In LPJ, there were not so much products that they are having. Mostly, their income of financial are coming from the client.

1.6 MARKET STRENGTH

As a regulatory body, Johor Port Authority strives to ensure that licensed port operators provide efficient and effective service to all shipping companies that interact with these ports in accordance with the international standards of service..

1.7 CONCLUSION

In conclusion, the Johor Port Authority (JPA), or Lembaga Pelabuhan Johor, was created on January 1, 1975, under the Port Authorities Act 1963. JPA was established in 1977 and is Malaysia's first free trade zone port. JPA has made significant development since its inception. Under the Privatization Act of 1990, port operations were privatised in 1995, and JPA began to act as a regulating body for the port's activities. To be the leading port authority driving Johor as the preferred port, the mission is to regulate and facilitate maritime industry to enhance the competitiveness of ports in Johor.

CHAPTER 2: TRAINING ATTENDED

2.1 INTRODUCTION

This chapter contains an overview of all of the activities that take place each week during industrial training. The progress of each activity or job will be documented in the logbook in order to compile students' daily reports. As a result, this part will briefly detail the activities and service activities that were carried out throughout my seventeen weeks and 3 days training sector internship starting March 29, 2021 until July 28, 2021. As a result, this chapter will detail the summary activities and tasks that were completed throughout my two month training industry internship.

Students were exposed to wide range of new experiences while undertaking industrial training at the firm. In addition to putting into practice what they have studied at university, students have been exposed to the laws and regulations that must be obeyed, as well as the importance of ethics in the workplace. Students are also given a timetable to adhere to in order to be in different departments depending on the course relevant requirements. The departments that have been assigned to me are building unit departments.

Many new things have been introduced to me through my work in the industrial training. The many different things I was exposed to throughout my industrial training in this firm came as a result of my industrial training. In the training industry, I have been given time of 8 hours per day, starting at 8.00 am and ending at 5.00 pm daily from Sunday to Thursday at Lembaga Pelabuhan Johor

2.2 EXPOSURE

Date & week	Activities
Week 1	<p>Reporting day and briefing on LPJ and duty in department and learnt about organization.</p> <ul style="list-style-type: none">• Meet and greet session with the company employees.

Date & week	Activities
Week 2	<ul style="list-style-type: none">• Attend the assembly that is held once a month• Given a task to learn about LPJ building• Go through all floors in the building including the outside• Learn about safety, maintenance

Date & week	Activities
Week 3	<ul style="list-style-type: none">• Fixing a few lights in the building• Fixing broken doors on the ground floor• Learn about electric circuit in LPJ building

Date & week	Activities
Week 4	<ul style="list-style-type: none">• Learn about quality management• Joining the site monthly meeting where the progression work being discussed, and the solution for the problem that being held down the progression work.

Date & week	Activities
Week 5	<ul style="list-style-type: none"> Decorate the garden of the building for Hari Raya Build a small house for decoration Fix a few lights from the building

Date & week	Activities
Week 6	<ul style="list-style-type: none"> Attend the assembly that is held once a month Volunteer in giving goods to needy people in conjunction with Ramadhan The event is in groups for multiple locations About 100 houses distributed

Date & week	Activities
Week 7	<ul style="list-style-type: none"> Start working from home (WFH) Continue learning about LPJ building Building Control System that use Building Automation System (BAS) Solar energy Been given the drawings of the building to do some analyze

Date & week	Activities
Week 8	<ul style="list-style-type: none"> Do some revision on the construction drawing that been though last semester and do some comparison on another construction drawing Submit the report with all the research that been done. Joining the site monthly meeting online because of the pandemic issue where the progression work being discussed, and the solution for the problem that being held down the progression work.

Date & week	Activities
Week 9	<ul style="list-style-type: none"> • WFH • Continue learning about LPJ building • rainwater harvesting system • Greenhouse • Inverter for lift and Aircond

Date & week	Activities
Week 10	<ul style="list-style-type: none"> • Learn about the process of painting the LPJ building • Learn about the design stage of the building • Learn about the contract information in the making of the building

Date & week	Activities
Week 11	<ul style="list-style-type: none"> • Learn about the green elements about the building • Learn about the Interior design suggestions and the losse furniture

Date & week	Activities
Week 12	<ul style="list-style-type: none"> • Learn about BIM software • Joining the site monthly meeting online because of the pandemic issue where the progression work being discussed, and the solution for the problem that being held down the progression work.

Date & week	Activities
Week 13	<ul style="list-style-type: none"> • Learn how to use Tekla • Learn how to use SkecthUp

Date & week	Activities
Week 14	<ul style="list-style-type: none"> • Learn about tender • Do the research about the board that connected with the civil engineering scope.

Date & week	Activities
Week 15	<ul style="list-style-type: none"> • Learn how to use the Enscape. • Learn about Revit

Date & week	Activities
Week 16	<ul style="list-style-type: none"> • Do some comparison on another construction drawing • Do some study about the user satisfaction survey of the building • Joining the site monthly meeting online because of the pandemic issue where the progression work being discussed, and the solution for the problem that being held down the progression work.

Date & week	Activities
Week 17	<ul style="list-style-type: none"> • Continue learn about the LPJ building • Learn about the design guidelines of the building • Learn about the PH criteria and rating

Date & week	Activities
Week 18	<ul style="list-style-type: none"> • Learn about the design concepts of the building • Learn about the façade analysis of the building

2.3 CONCLUSION

During the internship along the nineteen weeks of the internship program at the company. The trainee has been exposed with a lot of work that involved the civil engineering work. With that been set there are a lot of new way to handle some problem and the management work that can be done to make sure the project that being assign can be run smoothly. And with the way of communication that can be made for the smoother ride of the construction project.

CHAPTER 3: TECHNICAL REPORT

3.1 INTRODUCTION

During the 4 month industrial training program, as a trainee, I have learned a lot about Lembaga Pelabuhan Johor building and I have encountered some problem that occur during the industrial process. With the guidance of the company supervisor, the problem solves with the critical thinking and I try to understand the process so that the problem does not make the progression work being hind behind.

3.2 PROBLEM ENCOUNTERED AND HOW TO OVERCOME IT

1. Satisfactory level of client.

The construction the company involve in has a combined work from the client and the main contractor itself. The client perspective always aims for the beautiful outcome that need to be provide by the main contractor part, and they will make the mistake that been done under their supervision as a follow up mistake that been done by the main contractor. The solution that being provide was the company always update their work and ask for the architect approval so the client will be at ease as the approval from the professional perspective.

2. Safety precaution

The safety precaution among labor worker according to the PPE always been neglected. The visit from client and consumer also neglect the safety precaution. From this evaluation, the main contractor take option of apply the safety precaution and remind the worker and the visitor on apply the safety equipment, with the minimum of wearing the safety boot.

3. The lack of autism in work

Some of the worker was need to be told before they did the work, this make the process of work progression being done slowly. Some of the worker done the work poorly as long as it is look fine and no specification instruction is given, they will be done the work as they please. The solution that they provide is do some provocation as a warning to them with stern instruction include in it.



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