UNIVERSITI TEKNOLOGI MARA

INDUSTRIAL TRAINING REPORT 2022

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(2019235242)

JABATAN KERJA RAYA (JKR) DAERAH MARAN

LOT 12, JALAN SERI KERAMAT

26500 MARAN

PAHANG DARUL MAKMUR

DIPLOMA

MARCH 2022 – AUGUST 2022

ABSTRACT

Students in several programmes at all levels of study at Institusi Pengajian Tinggi are required to do industrial training (IPT). An industrial training programme has been designed to strengthen the necessary skills in order to increase the employability level of graduates. Students have the chance to learn in the workplace through industrial training programmes, gaining practical experience that improves their marketability. The goal of this programme is to finish the required coursework for the diploma and earn a university degree. Finally, the trainees have the chance to learn more about management and to be fully informed of the site's development.

In Industrial Training, I apply all semester courses that have been taught in theory or practical to real world situations. Start the semester differently from any other semester at Jabatan Kerja Raya (JKR) Daerah Maran, as well as the sixth semester to be achieved in order to be successful as well as the course results. From 28 March 2021 to 27 Jully 2022, the total Industrial Training period of 17 weeks.

Furthermore, every week I will follow assistant engineer in charge of certain area for site visit. Mainly, the purpose of the site visit is to do site investigation, solving a problem at the site and to see the progress of the construction. In addition, there was a time I was given a chance to sketch the measurement of the bridge during the site investigation. Hence, the Bills of Quantities of the project also sketched by me by referring the JKH (Jadual Kadar Harga). Most of the time, we will also refer the JKR Specification of Buildings 2021 as a guideline in construction work. Preparing a document of 'sebutharga' for every project also a great opportunity for me as I can related it with project management. Lastly, during this internship, it really helped me in understanding how the JKR scope work and how important it is in Civil Engineering.

ACKNOWLEDGEMENT

I am using this opportunity to express my gratitude to Jabatan Kerja Raya (JKR) Daerah Maran for having me as internship student at their place. It was a great chance for me to learn and gained experienced in that department for two months. I am also grateful as I have met a lot of wonderful people and attending a lot of event that was organized by the department through this internship period.

To my supervisor and also as a Boss at the department, Ir Mohd Haniff Bin Hasanuddin, I would like to say thank you for being a supportive boss/supervisor and also helped a lot in guiding me throughout this industrial training.

A big thanks to all Assistant Engineer which are Puan Aslizawati, Encik Azli, Encik Faizul, Encik Aidil, Encik Azim, Puan Nurul and Puan Mastura for giving me a chance went to site visit during the internship period. Because of their guidance, help and plenty of information about the infrastructure projects that they handling I gained a lot of information that was related to my course.

To the remaining staff of JKR Daerah Maran, thank you for making me comfortable and I have no problem in adjusting myself during my internship there as they were very funny and friendly. Lastly, thank you to Encik Firdaus Akbar as an Industrial Training Coordinator of Faculty of Civil Engineering UiTM Cawangan Johor Kampus Pasir Gudang. To Puan Wan Nurul Hanim, it was great to be under your supervised during the internship and thank you for your support as my Faculty Supervisor.

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CHAPTER 1:
INTRODUCTION

1.0 Introduction

Industrial Training Program is one of an important components of the curriculum for diploma program offered by Universiti Teknologi Mara (UiTM). The industrial training program mandatory for all students to enhance their knowledge and technical skills. Indirectly, it can provide an opportunity to learn while experience working in local companies. The program also seeks to adjust the students with the working environment that will undertake .The main goal of the Industrial Training program is to provide opportunities for students to undergo practical training in the employment sector in the fields of engineering, technology and management to improve the professional skills and interpersonal skills as a professional.

1.1 Background of the Company

JKR Pahang formerly known as Public Work Department is one of the organizations the most important in the government. This is because the services offered by JKR Pahang are not only provide public infrastructure such as buildings, roads, bridges, water and electricity even technical advisory services are also provided to any government or private agency in carrying out development in this country. Since JKR Maran work in the shade of JKR Pahang, means that every instruction will be monitored by the HQ at JKR Pahang.

Jabatan Kerja Raya (JKR) Maran is divided into 7 departments which are, Mechanical, Road, Electrical, Building, Facility, Material Survey and Management department. However, this report is focusing on the Road Department and Building Department since the writer undergoing the practical training under the supervision of these two department. The Road Department is headed by a road engineer named Jason Lim Boon Seng and The Building Department is headed by a building engineer named Mrs. Siti Norhaslin Binti Mohd Yusof both of them hold the position of Grade 41 Engineer. Everyone on the department play an important role in maintaining the good name of JKR Maran.

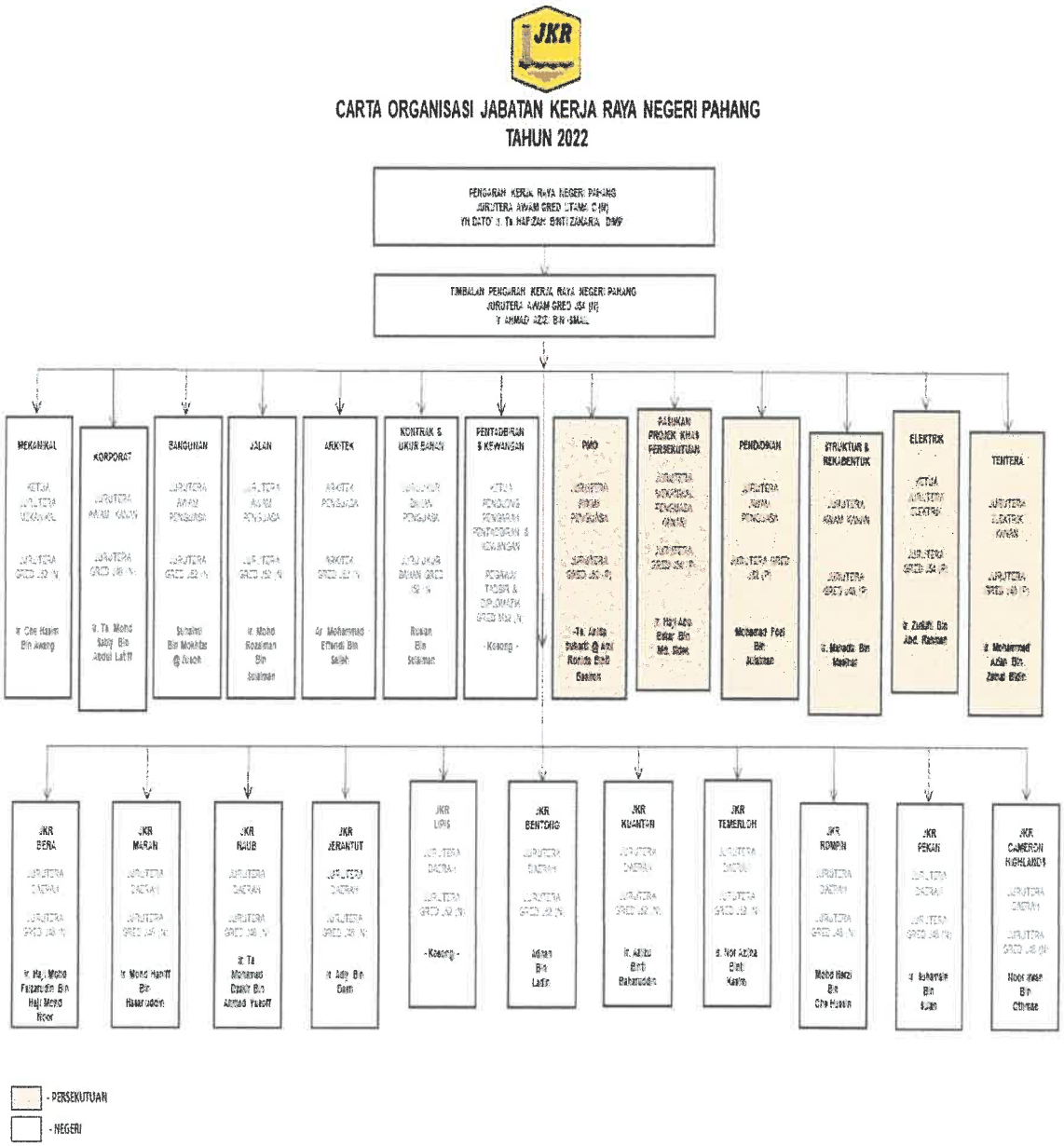
Figure 1.0: JKR Logo

Table 1.0: Company Profile

Company Name	Jabatan Kerja Raya Daerah Maran
Company Address	Lot 12, Jalan Seri Keramat, 26500 Maran, Pahang Darul Makmur.  **Figure 2.0: Locality**
No phone	09-477 1911

Email	maran@jkr.gov.my
Fax	09-417 1913
Date of Incorporation	In the year of 1935
Type of Business	Responsible for construction and maintenance of public infrastructure.

1.2 Organizational Structure



1.3 Nature of Business

Charter

Figure 3.0: JKR Charter

Objective

Providing road infrastructure, buildings and engineering services to meet the National and State Development Policy which focuses on:

1. Deliver 100% of the project according to the agreed schedule in the Q-Plan with a 10% variance.
2. Complete 100% of the project according to the approved cost with a 10% variance.
3. Spending 100% of the annual allocation with a 5% variance.
4. Towards quality products that meet customer needs to a level exceeding 70% (based on the Customer Satisfaction Survey Form).
5. Towards a quality product that leads to zero complaints from customers by ensuring less than 10 types of complaints for each project which is closely related to the following characteristics:

    - Product functionality as designed
    -Safety of use
    - Quality maintenance facilities for craftsmanship (workmanship)

Vision

We will be a World Class Service Provider and Center of Excellence in Asset Management, Project Management and Engineering for the Development of National Infrastructure Based on Creative and Innovative Human Capital and the Latest Technology.

Mission

Our mission is to contribute to the development of the country by:

1. Helping our customers realize policy goals and deliver services through collaboration as a strategic partner.
2. Standardize our processes and systems to provide consistent service results.
3. Provide effective and innovative asset and project management services.
4. Strengthen the existing engineering competence.
5. Develop human capital and new competencies.
6. Prioritize integrity in providing services.
7. Build a harmonious relationship with the community.
8. Preserving the environment in service delivery.

Certificate

Anugerah Sirim QAS - ISO 9001: 2015 - Sistem Pengurusan Kualiti

SIRIM QAS INTERNATIONAL

SIJIL

QUALITY SYSTEM
SIRIM

STANDARDS

UKAS
074

SIRIM QAS International Sdn. Bhd. dengan ini mengesahkan bahawa

JABATAN KERJA RAYA NEGERI PAHANG
TINGKAT 10-12
KOMPLEKS TUN RAZAK
BANDAR INDERA MAHKOTA
25582 KUANTAN
PAHANG DARUL MAKMUR
MALAYSIA

telah melaksanakan Sistem Pengurusan Kualiti yang menepati

ISO 9001 : 2015

SISTEM PENGURUSAN KUALITI - Keperluan

Skop Pensijilan

PERKHIDMATAN PERUNDINGAN TEKNIKAL DAN PENGURUSAN PROJEK BAGI PROJEK-PROJEK PEMBANGUNAN INFRASTRUKTUR KERAJAAN.

Tarikh dikeluarkan	:	**15 Mac 2019**
Tarikh asal pensijilan	:	**23 Mac 2007**
Tarikh luput	:	**22 Mac 2022**
No. pensijilan	:	**QMS 01697**

SIRIM QAS International Sdn. Bhd.

Mohd Azanuddin Salleh
Pengarah Urusan
SIRIM QAS International Sdn. Bhd.

Figure 4.0: Quality Management System Certificate

Anugerah Sirim QAS - ISO 14001: 2015 - Environmental Management System

SIRIM QAS INTERNATIONAL

CERTIFICATE

ENVIRONMENTAL SYSTEM
SIRIM

SIRIM QAS International hereby certifies that

JABATAN KERJA RAYA (JKR) MALAYSIA
IBU PEJABAT JKR MALAYSIA
JALAN SULTAN SALAHUDDIN
50582 KUALA LUMPUR
WILAYAH PERSEKUTUAN
MALAYSIA

STANDARDS MALAYSIA

has implemented an Environmental Management System complying with

ISO 14001:2015

ENVIRONMENTAL MANAGEMENT SYSTEM - Requirements with Guidance for Use

UKAS
074

Scope of Certification

PROJECT MANAGEMENT FOR FEDERAL PROJECTS IN ENVIRONMENTAL SENSITIVE AREA (ESA) INCLUDING SABAH AND SARAWAK AND PROJECTS WITH ENVIRONMENTAL IMPACT ASSESSMENT (EIA).

IQNet

Issue date	:	20 April 2018
Validity date	:	18 June 2020
Certification No.	:	EMS 00227

SIRIM QAS International Sdn. Bhd.
(Company No. 490334-X)
1, Persiaran Dato' Menteri
Section 2, P. O. Box 7035
40700 Shah Alam
Selangor Darul Ehsan
MALAYSIA

Tel : 60-3-5544 6404
Fax : 60-3-5544 6787

http://www.sirim-qas.com.my
http://www.malaysiancertified.com.my

Mohd Azanuddin Salleh
Managing Director
SIRIM QAS International Sdn. Bhd

This certificate is granted subject to the terms and conditions as stated in the Certification Agreement

Figure 5.0: Environmental Management System Certificate

Anugerah Sirim QAS - OHSAS 18001: 2007 - Occupational Health Safety Management Systems

SIJIL

SIRIM QAS International Sdn. Bhd. dengan ini mengesahkan bahawa

JABATAN KERJA RAYA (JKR) MALAYSIA
KETUA PENGARAH KERJA RAYA
PEJABAT KPKR, IBU PEJABAT JKR
TINGKAT 5, BLOK F, JALAN SALAHUDDIN
50582 KUALA LUMPUR
WILAYAH PERSEKUTUAN
MALAYSIA

telah melaksanakan Sistem Pengurusan Keselamatan dan Kesihatan Pekerjaan yang menepati

OHSAS 18001 : 2007

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEMS – Requirements

Skop Pensijilan

PENYELIAAN PROJEK PEMBINAAN BAGI KONTRAK BERNILAI MELEBIHI RM 20 JUTA.

Tarikh dikeluarkan : **04 Mei 2018**

Tarikh Sah : **14 Mei 2021**

No. Pensijilan : **OHS 00604**

Mohd Azanuddin Salleh
Pengarah Urusan
SIRIM QAS International Sdn. Bhd

Figure 6.0: Occupational Health Safety Management Systems Certificate

1.4 Products

Table 2.0: Ongoing Projects

No	Title	Value	Duration	Client
1.	PEMBINAAN SATU UNIT BLOK ASRAMA PUTERI EMPAT TINGKAT DI SEKOLAH AGAMA MARAN, MARAN, PAHANG	RM 3,791,554.30	30 Oktober 2019 – 4 Jun 2022 (EOT 3)	Jabatan Agama Islam Pahang (JAIP)
2.	MEMBINA BARU MASJID FELDA CHEMPAKA JENGKA 2, MARAN, PAHANG	RM 1,939,939.00	6 Jun 2020 – 15 Julai 2022 (EOT 1)	Pejabat Pembangunan Negeri (SDO) Pahang
3.	MENAIKTARAF SEKOLAH MENENGAH VOKASIONAL PERTANIAN CHENOR KEPADA KOLEJ VOKASIONAL PERTANIAN CHENOR, PAHANG	RM 9,848,323.08	15 Oktober 2020 – 27 Oktober 2022 (EOT 1)	
4.	MEMBINA MASJID LUBUK PAKU, MARAN, PAHANG	RM 2,333,333.00	23 Ogos 2021 - 25 Jun 2023	Pejabat Pembangunan Negeri (SDO) Pahang
5.	MEMBINA BARU PUSAT HEMODIALISIS PARLIMEN MARAN, PAHANG.	RM 4,620,000.00	8 Disember 2021 – 5 Disember 2023	Pejabat Pembangunan Negeri (SDO) Pahang

1.5 Market Strength

Jabatan Kerja Raya works in the public sector. Yes, the market's strength is strong. But they must also take things seriously in order to guarantee that the maintenance they have performed is both high-quality and safe for users. Additionally, the sector must effectively manage the budget to ensure that the annual source of funding can cover all required building and maintenance tasks. As a result, the budget is sufficiently controlled and the public sector is capable of self-sufficiency.

1.6 Conclusion

In conclusion, Jabatan Kerja Raya is crucial to the standards of construction. Planning, building, and cleanup operations were all guided. Additionally demonstrating the management of building construction using the Standard Specifications for Building Works and the Standard Specifications for Road Works. Additionally, one of its primary responsibilities is to maintain the infrastructure, including buildings, public hospitals, public schools, school buildings, interstate roads, and national roads.

CHAPTER 2:
TRAINING ATTENDED

2.0 Introduction

This chapter will discuss on more about the specific details towards the projects and training given during the 17 weeks and 3 days of industrial training. This will include a brief explanation of the steps in completing the project and other side task. I gained a lot of knowledge about the range of tasks involved in the profession of civil engineering. Although the road department and the building department, to which I was assigned, were in charge of on-construction and post-construction projects, with the majority of the projects already eighty percent complete, I was exposed to another area of work that was indirectly related to my experience but that I did not learn in lecture class. After completing my internship, I learned a lot of new things, which is what most motivates me to continue learning about engineering. I came to see that civil engineering is about more than just building; it's also about administration, upkeep, the environment, and teamwork. I also improve my general skills such as communication skills, time management and disciplines. Therefore, this chapter will focus on a log-based summarization of the training attended.

2.1 Exposure Level

Table 3.0: Weekly Summary

Week	Activities
Week 1 *28 March 2022-* *1 April 2022*	• Reporting to undergo Industrial Training at Jabatan Kerja Raya Daerah Maran. • Briefing on rules and regulations of work division. • The management placed internship students to their department based on their study course. • Meet and greet session with all the employees of JKR Daerah Maran. • Reporting to the Building Department for the whole internship session. • Discover about Material Approval document. • Reviewed the document of the project.

	• Exposed to civil engineering work field. • Identify the final discharge point of site area. • Site visit to Maran Parliamentary Haemodialysis Centre, SMA Maran Hostel Reconstruction and Surau SK Bukit Lada • Exposure to RATOL application as aid to make BQ
Week 2 *3 April 2022 – 8 April 2022*	• Review of Maran Parliamentary Haemodialysis Centre Project • Site visit to Vocational College Chenor • Follow the road department for road recondition at Jengka 6 • Recalculate the length of cut and fill section • Site visit to SMA Maran
Week 3 *11 April 2022 – 15 April 2022*	• Construct an underground pipeline route using AutoCad and drawing plan • Review of Pelan Pengurusan Risiko for Maran Parliamentary Haemodialysis Centre Project • Review of BQ of Maran Parliamentary Haemodialysis Centre Project • Making a BQ for flood house inspection report • Recalculate the amount needed to repair the flooded houses
Week 4 *18 April 2022 – 22 April 2022*	• Make a proper arrangement for new office equipment JPN Jengka branch and monitored by PJ Faizul • Make a BQ for new office equipment JPN Jengka branch with aid from Protégé Syamin • Attend a meeting with assistance engineer and discussing about the total cost for maintenance project • Site visit to Vocational College Chenor

Week 5 *25 April 2022 – 29 April 2022*	• Attend a meeting with All building department staff about Sebut Harga tender • Site visit to SMA Maran • Attend a course about Faraid Property Management • Attend a meeting with PJ Faizul about the mistake of latest BQ • Redo the BQ for new office equipment JPN Jengka branch • Find the contract document of others project as references to finish up BQ for new office equipment JPN Jengka branch
Week 6 *2 May 2022 – 6 May 2022*	**Hari Raya Puasa**
Week 7 *9 May 2022 – 13 May 2022*	• Review of compression test of concrete for SMA Maran Hostel Reconstruction. • Review of compression test of claybrick for SMA Maran Hostel Reconstruction • Review of tensile test for SMA Maran Hostel Reconstruction
Week 8 *16 May 2022 – 20 May 2022*	• Review of lab test for roof trusses • Review of Non-Conformance Product (NCP) file to identify defect • Site visit to LCS Marketing Sdn Bhd • Site visit SJKC Pei Min, make a measurements and estimation cost for the maintenance project
Week 9	

23 May 2022 – 27 May 2022	• Review the latest progress report starting from June 2021 for Masjid Chempaka project. • Review the latest progress report starting from July 2020 for Masjid Chempaka project. • Site visit to LCS Marketing Sdn Bhd for compression test ratio (7days) concrete grade 30 • Make a BQ for maintenance work and other related work for Mahkamah Majistret Maran
Week 10 *30 May 2022 – 3 June 2022*	• Review of Borang Pertanyaan Teknikal from conractors where there was an arguiment about air system flow in the building • Review of Non-Conformance Product (NCP) for SMA Maran Hostel Reconstruction. • Attend a meeting with all building department staffs to discuss about the whole project ongoing. • Review of Application to Obtain Approval of Job Change • Site visit to SMA Maran Hostel Reconstruction as there was a major defect happened and needed to be discuss with the contractor
Week 11 *6 June 2022 – 10 June 2022*	• Make a research about Provisional sum that included to small sewerage treatment at SMA Maran Hostel Reconstruction. • Review of Variant of Price (VOP) document to help reduce the losses incurred by contractors due to increase in the price of contruction materials involved. • Review of Extend of time (EoT) for SMA Maran Hostel Reconstruction projects as 75days extend granted. • Site visit to Maduri Oilpalm fruit farm to monitor the drain works.
Week 12	

13 June 2022 – 17 June 2022	• Site visit to Masjid Chempaka Jengka 2 to check the quantity of windows and doors installed. • Review of internal audit report for monitoring and assuring that all of business assets have been properly secured and safeguarded. • Attend an Occupational Safety and Health (OSHA) meeting. • Site visit to LCS Marketing Sdn Bhd for compression test of 28 days for concrete grade 30. • Site visit to SMA Maran Hostel Reconstruction to monitor the premix work
Week 13 *20 June 2022 – 24 June 2022*	• Make a CCP report for Masjid Lubuk Paku project. • Make a Monthly Project Monitoring slide for 5 projects ongoing. • Make a late warning letter for contractor at Kuarters Jalan Chedung. • Make a BQ for Maintenance work at Suruhanjaya Koperasi Wilayah Maran (SKM). • Review of internal design prepared by Suruhanjaya Koperasi Wilayah Maran (SKM) and rearrange the design according JKR Spec.
Week 14 *27 June 2022 – 1 July 2022*	• Review of benefits as a staff of JKR • Make a measurement of circumference of the fence for maintenance project. • Pre-handover ceremony for SMA Maran Hostel Reconstruction. There were a lot of defect detected by the client. • Site visit to teachers quarters at jengka 2 to make a assessment with Jabatan Penilaian Staff and Pejabat Tanah Staff. • Site visit to Suruhanjaya Koperasi Wilayah Maran (SKM).

	• Review of quotation document for maintenance work at Kem Wawasan Negara Maran.
Week 18 *25 July 2022 – 27 July 2022*	• Site visit to LCS Marketing Sdn Bhd for 7 days cube test for Maran Parliamentary Haemodialysis Centre project. • Site visit to Maran Parliamentary Haemodialysis Centre to monitor the concrete pour for pad footing. • Given a self-time to make a research about Forth Industrial Revolution Automation.

2.2 Conclusion

Throughout these 17 weeks and 3 days of time, it was a pleasant memory. I had encountered many things I never before and learnt uncountable knowledge related to construction industry. I observed that there were no limits on learning: every single time, things will keep on changing to adapt the new technology in order to keep up with the society and also different solutions wil be used in order to solve the problem and not every day the problems will be the same. Besides, I acknowledge that without good responsibility, discipline, whole heartedness and right attitude and character, no matter how big or small the task is,we will never do it the right way. Also, instead of just the knowledge related to construction industry gained, I also developed good communication skill, leadership skill and teamwork. To know what I am doing for the task, asking and observing is the most crucial thing to do. I ask my supervisor regarding the purpose of the inspection and the sub-contractor regarding on how to inspect the work and know if there is defect or no defect. After sharing and showing, I understand the purpose of the inspection and I observe the action taken on the wire and pipe when there is defect.

CHAPTER 3:

TECHNICAL REPORT

3.0 Introduction

Technical reports are a specialised, structured writing style where material is provided in a way and in a format that best matches the psychological needs of the readers, allowing them to respond to a document as its author intended and accomplish the goal associated with that document. the process of acquiring knowledge from specialists and conveying it to a crowd in a manner that is simple to understand. Civil engineering encompasses a diversity of specialty sub-disciplines such as structural, water resources, environmental, construction, transportation, and geotechnical engineering. Many civil engineers are involved in major projects that require them to conceptualise and design within complex constraints. Key skills for a successful civil engineer include communication (both written and oral); perceiving, visualising, reasoning and problem solving; managing oneself, other people, time and things; working with other people; and using mathematics and science in design and problem solving. Engineering Practice provides a perspective and exposure to modern civil engineering practice.

3.1 Problem Encountered and Ways to Overcome

Table 4.0: Problems encountered

Problem	Solution
Moving Objects A construction site is an ever-changing environment, and construction hazards continue to increase as construction is underway. There are many moving objects commonly encountered on construction sites. These include overhead lifting equipment, supply vehicles, and diggers, all of which move around a usually uneven terrain.	• Avoid working close to the moving object. • Be vigilant of their surroundings, especially if the object does not have lights or beepers. • Wear Personal Protective Equipment (PPE), such as a high visibility jacket, to ensure they are seen.
Slips, Trips, and Falls	• **Uneven surfaces** – The risk of these can be reduced by providing walkways that are clearly designated

Slips, trips, and falls can happen in almost any environment. As construction sites often have uneven terrain, buildings at various stages of completion, and unused materials on site, it is unsurprising that slips, trips, and falls are a common hazard.	as walkways, having good conditions underfoot, and being well lit. • **Obstacles** – Instances of slipping and tripping over obstacles can be dramatically reduced by everyone keeping their work and storage areas tidy and designating specific areas for waste collection. • **Trailing cables** – Cordless tools should be used where possible. If this is not possible, cables should be run at high levels. • **Wet or slippery surfaces** – If a surface is slippery with mud it should be treated with stone, and if it is slippery with ice it should be treated with grit. Any areas that are slippery should be signposted, and footwear with a good grip should be worn.
Hand Arm Vibration Syndrome Hand Arm Vibration Syndrome (HAVS) is a painful and debilitating disease of the blood vessels, nerves, and joints. It is usually caused by the prolonged use of hand-held power tools, including vibratory power tools and ground working equipment.	• Construction workers should be given appropriate protection when using vibrating tools, and equipment should be well maintained.
Collapsing Trenches A common occurrence on construction sites is the collapsing of trenches with workers	Site managers should: • Consider the kind of support that is best suited for the trench.

inside. Further, a building that is being demolished or under construction can suddenly and unexpectedly collapse, which can seriously injure, or even kill, those inside.	• Ensure the trench is fully secure. • Regularly inspect the trench both before and during the work shift.
Airborne Fibres and Materials Unsurprisingly, a lot of dust is produced on construction sites. The dust on construction sites is often an invisible, fine, and toxic mixture of hazardous materials and fibres. This can damage the lungs and lead to diseases such as chronic obstructive pulmonary disease, asthma, and silicosis.	• It is the duty of all employers to ensure protective equipment is used. Simply providing it is not enough.

3.2 Experience Gained

The most important thing that I learned during the internship was the safety precautions. strong defence is the best offence against workplace hazard. Defense begins with planning and increasing awareness. Safety training is the best strategy for increasing awareness. Safe work practises can lessen the expenses associated with liability while reducing the amount of workplace injuries. Examine current practises and protocols to discover which are efficient and which require improvement before implementing a safety programme. Aim for the best while putting up your best effort. The proverb is undoubtedly true when it comes to safety culture. Creating and implementing a response plan helps ensure that all personnel are safeguarded from any potential repercussions in the event of a real emergency. A crew that is knowledgeable about catastrophe protocols is able to handle all the problems more effectively and safely. A prepared team is better prepared to face challenges. As a result, it is crucial to create an incident management framework and a chain of command.

4.0 Introduction

During my seventeen weeks of industrial training at Jabatan Kerja Raya Daerah Maran, the many initiatives and activities in which I took part provided me with a wealth of valuable experience and fresh knowledge. I received a lot of benefits and constructive changes from this industrial training that I can use when I go back to work soon. It also enables me to look for a job without making a long-term commitment. The fact that the theory I had studied in class was connected to the industrial training objectives led me to assume that they had been achieved. While this connection was not exhaustive, it substantially aided me in understanding the theory during the industrial training. Because of this, my placement at a construction company gave me an understanding of the range of work that contractors do as well as the real working environment. In addition to providing a connection to the construction industry, studying civil engineering teaches us about the local community by teaching us how to work with others, complete projects successfully, avoid difficulties or accidents, and more. Despite the fact that I find it challenging, I can easily apply it to my day-to-day activities.

4.1 Lesson Learned

Skills in planning and time management. At the beginning of the semester, as a college student, we know what assignments need to be accomplished, what needs to be done, and when they are due. This makes it simpler to arrange and schedule your time, but it's an advantage which you rarely have as a professional. It's up to you to prepare for a full-time job so that you not only reach deadlines but are still prepared for the unexpected, such as last-minute projects. Instead of just completing tasks by their deadlines, internship learn to independently manage time, so supervisor does not have to request progress reports or recall due dates.

I have been trained by industrial training to always be prepared and handle time well or else a lot of work will be lost. I have also tried to be more proactive. A cut-and-dried structure is followed in college courses: the lecturer will give assignments and explain exactly what he wants, and send in a project or paper that follows the guidelines. Employers may not however, manage as closely as lecturers are doing in the technology industry. Without specific guidance, they will expect to submit our own ideas and suggestions and will rely on me to accomplish the job they provide. An internship gave me the opportunity to prove that I can not only follow orders, but also add ideas to the company's benefit. I will understand by the time I join the

workforce, how to present these ideas to management and how to implement them. Industrial training also make me more confident to communicate with others.

4.2 Knowledge Gained

I gained a variety of industry works and additional knowledge about the field of civil engineering. I had the opportunity to see the progress of the bridge making project, retaining wall, gabion wall, stone revetment, drainage and all related to hydrology. Here, I can relate it with the course that I had learned in the university. Besides in aspects relating to construction work, I can see the current developments. The experience of working here will not be forgotten, and over the years I do not know it will teach me many things. When compared to industry training experience, learning at college is not the same. It is sometimes best to practice the skills that I have learned. Therefore in field training, learners may enhance their comprehension. After having this initial exposure, students would be better prepared for work. I am very happy to be joining this industrial training company. I also had the chance to collaborate with others who are much more experienced and skilled. This is an opportunity for me to acquire as much information to assist these individuals as possible. I record all the good experiences for myself as additional notes. At least during practice sessions, I completed training with a full chest and not in vain without engendering anyone. Besides, I can learn how to communicate with employees either of the subordinates or superiors involved with this department. There are many demands to consider the desires of clients to achieve satisfaction in delivering the best results. It is also a good practice in the industry so that students understand all the dimensions of the area followed by Civil Engineering.

4.3 Suitability of Organization

Industrial training also offers us opportunities to improve our common skills, such as communication and management skills, apart from theoretical and technical expertise. We have a chance to interact with the global community as well. One of the most common ways of finding and also having a job is networking. You are able to create a greater and global working climate for yourself by creating new contacts worldwide through internships in various fields.

4.4 Limitations and Recommendations

I am honored to be involved in the training industry as a student of UiTM Pasir Gudang. There were different interests and information I acquired during the training. The training industry is a successful program because it will provide learners with opportunities in their respective fields to experience the real circumstances in the workplace. With these thoughts and opinions, shortly after graduation, engineering student's grow. Unless it is in their own work by students, this sort of experience cannot be bought. I would like to suggest as a recommendation that the industry provide students with an assessment more frequently. From time to time, this evaluation was given to the university as monitoring. The scope of training can be given by the industry and submitted in the first week of training to the university. For quality performance and quality training, it is quite important. A visit by the sector needs to be undertaken more regularly, not enough to just visit at the end of training. I would also recommend adding more than 2 months to 6 months of training to the time span for industry training. Therefore a period of 2 months was not sufficient for any further information to be obtained. If the time is prolonged, there may be further experience for the students to undergo. Students would also gain a deeper understanding of their roles in the sector and become more successful in their work.

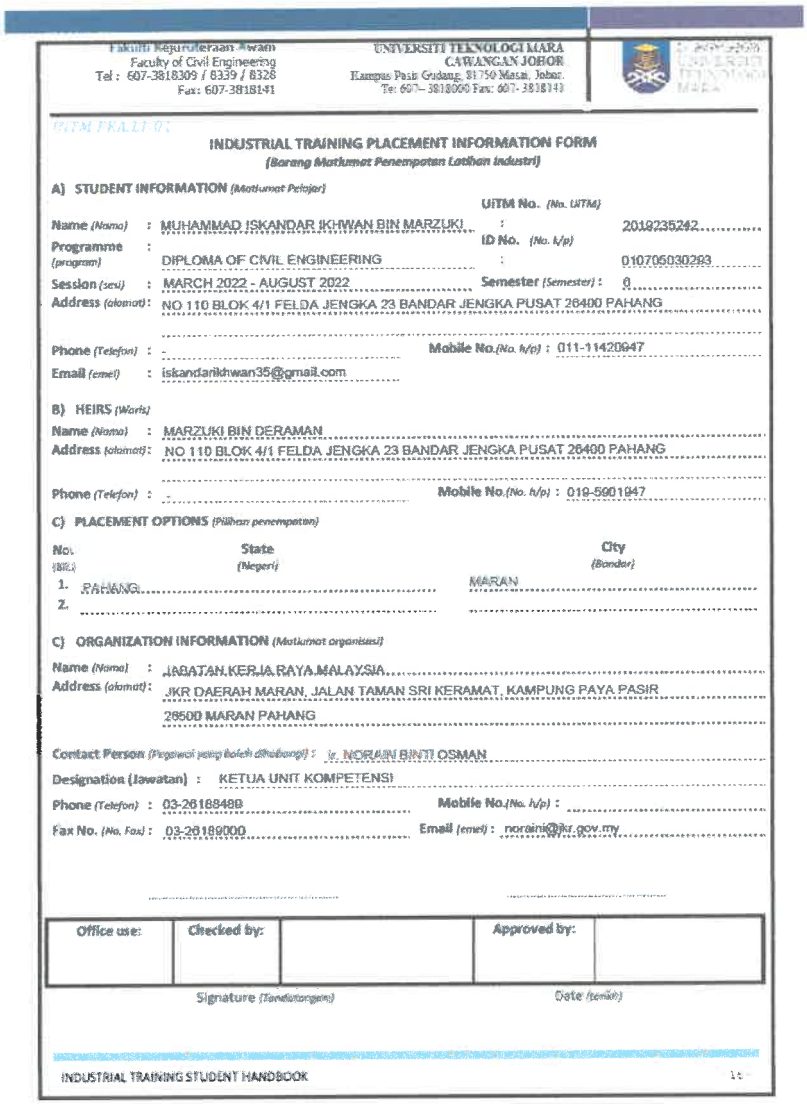
REFERENCES

- Puan Hanim, Assistant Engineer JA36 JKR Daerah Maran
- Encik Faizul, Assistant Engineer JA29 JKR Daerah Maran
- Encik Aidil, Assistant Engineer JA29 JKR Daerah Maran
- Encik Azim, Assistant Engineer JA29 JKR Daerah Maran
- Puan Nurul, Assistant Engineer JA29 JKR Daerah Maran
- JKR Specification Building 2014, PTChong, March 30, 2017 https://kupdf.net/download/jkr-standard-specification-2014 pdf_58dcc53bdc0d6021058970d4_pdf

APPENDICES

APPENDIX A

LI 01 Borang Maklumat Penempatan



Fakulti Kejuruteraan Awam
Faculty of Civil Engineering
Tel : 607-3818309 / 8339 / 8328
Fax: 607-3818141

UNIVERSITI TEKNOLOGI MARA
CAWANGAN JOHOR
Kampus Pasir Gudang, 81750 Masai, Johor.
Tel: 607- 3818000 Fax: 607- 3818143

UiTM FKAL 07

INDUSTRIAL TRAINING PLACEMENT INFORMATION FORM
(Borang Maklumat Penempatan Latihan Industri)

A) STUDENT INFORMATION *(Maklumat Pelajar)*

Name *(Nama)* : MUHAMMAD ISKANDAR IKHWAN BIN MARZUKI
UiTM No. *(No. UiTM)* : 2019235242
Programme *(program)* : DIPLOMA OF CIVIL ENGINEERING
ID No. *(No. k/p)* : 010705030293
Session *(sesi)* : MARCH 2022 - AUGUST 2022
Semester *(Semester)* : 6
Address *(alamat)* : NO 110 BLOK 4/1 FELDA JENGKA 23 BANDAR JENGKA PUSAT 26400 PAHANG
Phone *(Telefon)* : -
Mobile No. *(No. h/p)* : 011-11420947
Email *(emel)* : iskandarikhwan35@gmail.com

B) HEIRS *(Waris)*

Name *(Nama)* : MARZUKI BIN DERAMAN
Address *(alamat)* : NO 110 BLOK 4/1 FELDA JENGKA 23 BANDAR JENGKA PUSAT 26400 PAHANG
Phone *(Telefon)* : -
Mobile No. *(No. h/p)* : 019-5901947

C) PLACEMENT OPTIONS *(Pilihan penempatan)*

No. (MIL)	State (Negeri)	City (Bandar)
1.	PAHANG	MARAN
2.		

C) ORGANIZATION INFORMATION *(Maklumat organisasi)*

Name *(Nama)* : JABATAN KERJA RAYA MALAYSIA
Address *(alamat)* : JKR DAERAH MARAN, JALAN TAMAN SRI KERAMAT, KAMPUNG PAYA PASIR
26500 MARAN PAHANG
Contact Person *(Pegawai yang boleh dihubungi)* : Ir. NORAINI BINTI OSMAN
Designation (Jawatan) : KETUA UNIT KOMPETENSI
Phone *(Telefon)* : 03-26188488
Mobile No. *(No. h/p)* :
Fax No. *(No. Fax)* : 03-26189000
Email *(emel)* : noraini@jkr.gov.my

Office use:	Checked by:		Approved by:	
	Signature *(Tandatangan)*		Date *(tarikh)*	

INDUSTRIAL TRAINING STUDENT HANDBOOK

LI 02 Surat Permohonan

Fakulti Kejuruteraan Awam
Faculty of Civil Engineering
Tel : 607-3816009 / 6339 / 6328
Faks: 607-3816140

UNIVERSITI TEKNOLOGI MARA
CAWANGAN JOHOR
Kampus Pasir Gudang, 81750 Masai, Johor.
Tel: 607- 3816000 Faks: 607- 3816141

UITM.FKA.LI-02

Surat Kami : 100-UITMKPG(FKA14/3/4)
Tarikh : 15 Februari 2022

JABATAN KERJA RAYA MALAYSIA
Menara Kerja Raya (Blok G),
Ibu Pejabat JKR,
Jalan Sultan Salahuddin, 50480,
Wilayah Persekutuan Kuala Lumpur.

Tuan,

PERMOHONAN PENEMPATAN LATIHAN INDUSTRI BAGI PROGRAM DIPLOMA KEJURUTERAAN AWAM (EC110)

Nama:	: MUHAMMAD ISKANDAR IKHWAN BIN MARZUKI
No. Kad Pengenalan:	: 010705030293
No. Pelajar UITM	: 2019235242
Program	: DIPLOMA KEJURUTERAAN AWAM (EC110)
Semester	: 5

2. Saya dengan ini mengesahkan bahawa butir-butir peribadi dan akademik di atas adalah seorang pelajar di Fakulti Kejuruteraan Awam, UITM, Pasir Gudang.

3. Sukacitanya jika pihak Tuan dapat menerima pelajar tersebut untuk menjalani Latihan Industri untuk tempoh tujuh belas (17) minggu bermula pada **28 MAC 2022 sehingga 27 JULAI 2022** sebagai **pra-syarat untuk lulus**. Sebagai maklumat, pelajar dilindungi oleh insurans sepanjang tempoh latihan.

4. Jika Tuan bersetuju untuk penempatan pelajar ini, saya memohon jasa baik pihak Tuan untuk memaklumkan kepada pihak saya dengan melengkapkan "Borang Pengesahan Penerimaan" (lampiran UITM.FKA.LI-04) dalam tempoh DUA (2) minggu daripada tarikh surat ini. Jika tidak ada sebarang maklum balas daripada pihak Tuan, permohonan ini dianggap TIDAK BERJAYA.

5. **Latihan industri yang akan dijalankan selama 17 minggu** adalah sangat pendek, tetapi ia sangat bermakna untuk membantu Universiti dalam menghasilkan bakal jurutera yang berdedikasi, cekap dan berdaya saing selepas tamat pengajian.

6. Fakulti Kejuruteraan Awam UiTM Kampus Pasir Gudang amat menghargai kerjasama pihak Tuan dalam semua hal yang berkaitan dengan latihan industri pelajar Fakulti Kejuruteraan Awam UiTM Kampus Pasir Gudang.
Terima kasih.

Yang benar,

KOOR. LI FKA UITM PG

s.k 1) Ketua Pusat Pengajian Kejuruteraan Awam, UiTM Pasir Gudang
INDUSTRIAL TRAINING STUDENT HANDBOOK

LI 03 Resume

Example of Resume (CV) (UiTM.FKA.LI-03)

RESUME

PERSONAL DETAILS

Name	: MUHAMMAD ISKANDAR IKHWAN BIN MARZUKI
Identification No.	: 010705-03-0293
Date of Birth	: 5 JULY 2001
Place of Birth	: HOSPITAL BESAR KOTA BHARU, KELANTAN
Age	: 20 YEARS OLD
Sex	: MALE
Marital Status	: SINGLE
Race	: MALAY
Religion	: MUSLIM
Citizenship	: MALAYSIAN
Postal Address	: NO 29 JLN SRI RAWANG 8, TAMAN SRI RAWANG, 48000 RAWANG SELANGOR
Mobile Phone No.	: 011-11420947
E-mail	: iskandarikhwan35@gmail.com

EDUCATIONAL BACKGROUND

Year / Period	Institution	Level	Achievement
2016	SMK PANGKALAN TLDM	PT3	8A 3B
2018	SMK PANGKALAN TLDM	SPM	5A 3B 2C
2019 - PRESENT	UiTM CAWANGAN JOHOR KAMPUS PASIR GUDANG	DIPLOMA	CGPA: 3.46

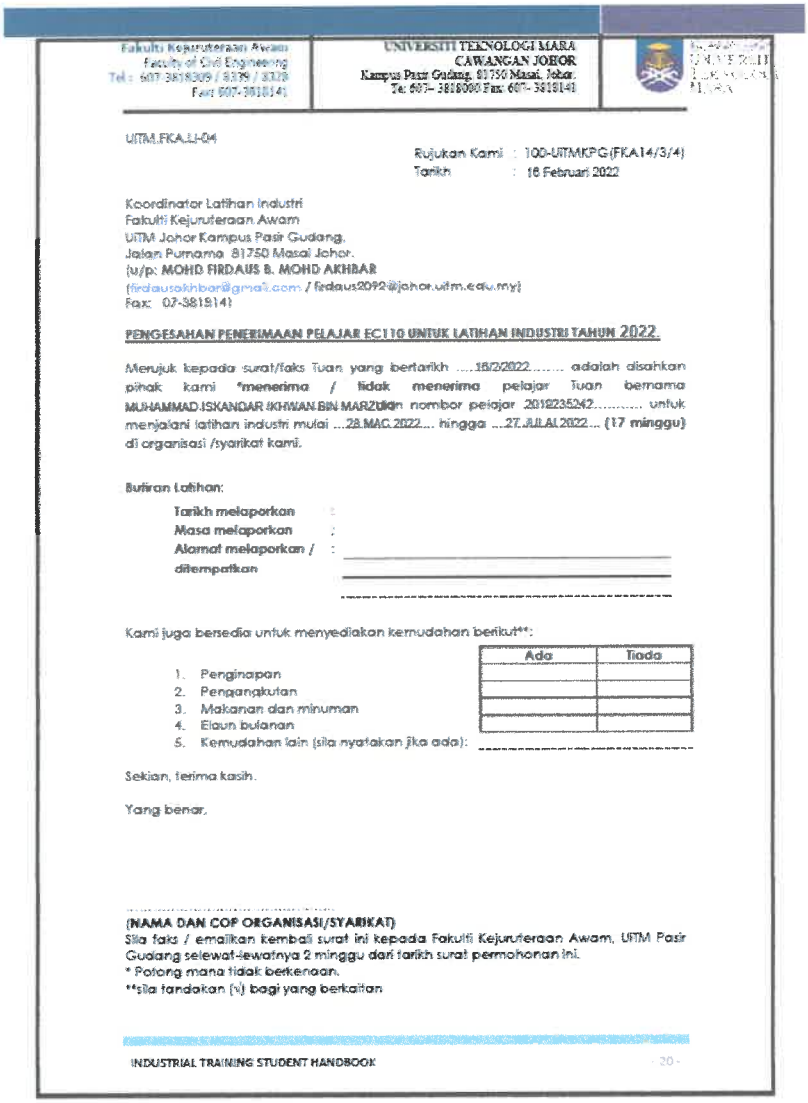
EXTRA-CURRICULAR ACTIVITIES

Year / Period	Programme / Activity	Location	Participation
2019	PERTANDINGAN ANTARA KOMPENI SIRI 4/2019	UiTM PASIR GUDANG	PARTICIPANT
2020	LATIHAN INTENSIF BAKAL KOMANDER SIRI 34/2020	UiTM PASIR GUDANG	PARTICIPANT
2019- 2021	MAJLIS PERWAKILAN KOMANDER KESATRIA	UiTM PASIR GUDANG	PARTICIPANT

WORKING EXPERIENCE

Year / Period	Organisation	Designation	Responsibilities
2018	MARINA ISLAND THEME PARK	PART TIME	CASHIER
2018	KOLAM PANCING MARINA ISLAND	PART TIME	CASHIER
2021	FELDA TECHNOPLANT JENGKA 23	PART TIME	LIFT PALM FRUIT

LI 04 Surat Maklumbalas



Fakulti Kejuruteraan Awam
Faculty of Civil Engineering
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Fax: 607-3819141

UNIVERSITI TEKNOLOGI MARA
CAWANGAN JOHOR
Kampus Pasir Gudang, 81750 Masai, Johor.
Tel: 607- 3818000 Fax: 607- 3819141

UiTM.FKA.LI-04

Rujukan Kami : 100-UiTMKPG(FKA14/3/4)
Tarikh : 16 Februari 2022

Koordinator Latihan Industri
Fakulti Kejuruteraan Awam
UiTM Johor Kampus Pasir Gudang,
Jalan Purnama 81750 Masai Johor.
(u/p: **MOHD FIRDAUS B. MOHD AKHBAR**
(firdausakhbar@gmail.com / firdaus2092@johor.uitm.edu.my)
Fax: 07-3819141

PENGESAHAN PENERIMAAN PELAJAR EC110 UNTUK LATIHAN INDUSTRI TAHUN 2022.

Merujuk kepada surat/faks Tuan yang bertarikh .....16/2/2022..... adalah disahkan pihak kami ***menerima / tidak menerima** pelajar Tuan bernama **MUHAMMAD ISKANDAR IKHWAN BIN MARZUKI** dan nombor pelajar 2019235242..... untuk menjalani latihan industri mulai ...28 MAC 2022... hingga ...27 JULAI 2022... **(17 minggu)** di organisasi /syarikat kami.

Butiran Latihan:

Tarikh melaporkan :
Masa melaporkan :
Alamat melaporkan / ditempatkan :

Kami juga bersedia untuk menyediakan kemudahan berikut**:

	Ada	Tiada
1. Penginapan		
2. Pengangkutan		
3. Makanan dan minuman		
4. Elaun bulanan		
5. Kemudahan lain (sila nyatakan jika ada):		

Sekian, terima kasih.

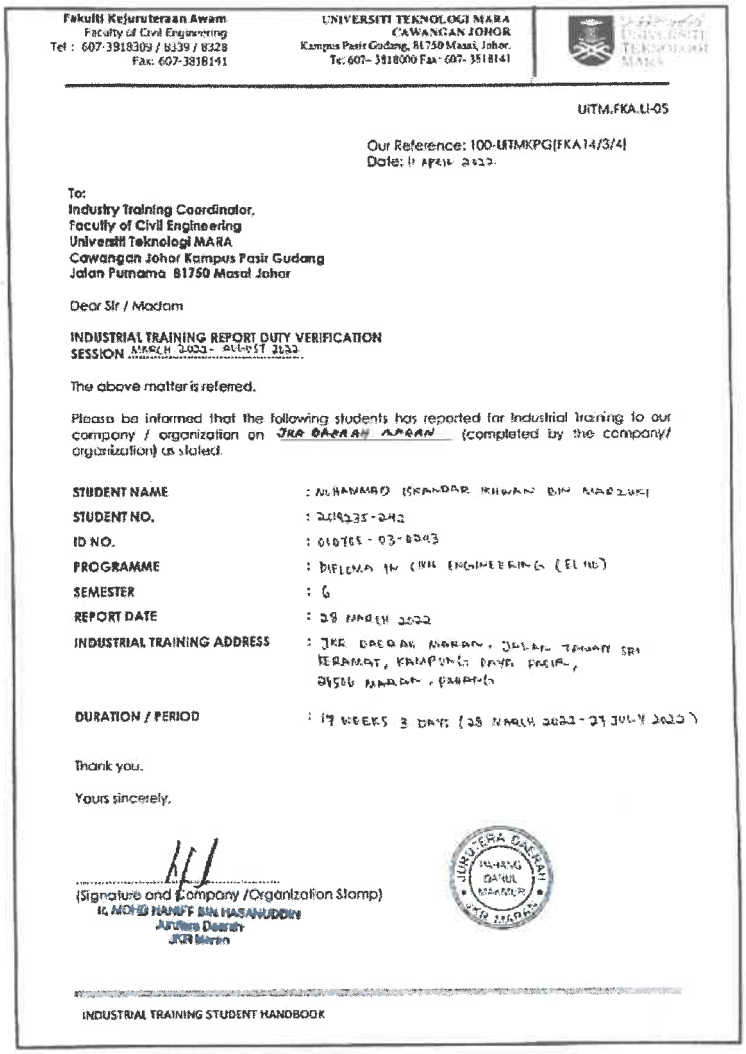
Yang benar,

.....

(NAMA DAN COP ORGANISASI/SYARIKAT)
Sila faks / emailkan kembali surat ini kepada Fakulti Kejuruteraan Awam, UiTM Pasir Gudang selewat-lewatnya 2 minggu dari tarikh surat permohonan ini.
* Potong mana tidak berkenaan.
**sila tandakan (√) bagi yang berkaitan

INDUSTRIAL TRAINING STUDENT HANDBOOK - 20 -

LI 05 Industrial Training Report Duty Verification



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Faculty of Civil Engineering
Tel : 607-3918309 / 8339 / 8328
Fax: 607-3918141

UNIVERSITI TEKNOLOGI MARA
CAWANGAN JOHOR
Kampus Pasir Gudang, 81750 Masai, Johor.
Tel: 607- 3918000 Fax: 607- 3918141

UiTM.FKA.LI-05

Our Reference: 100-UiTMKPG(FKA14/3/4)
Date: 11 APRIL 2022

To:
Industry Training Coordinator,
Faculty of Civil Engineering
Universiti Teknologi MARA
Cawangan Johor Kampus Pasir Gudang
Jalan Purnama 81750 Masai Johor

Dear Sir / Madam

INDUSTRIAL TRAINING REPORT DUTY VERIFICATION
SESSION MARCH 2022 - AUGUST 2022

The above matter is refered.

Please be informed that the following students has reported for industrial training to our company / organization on JKR DAERAH KOGAN (completed by the company/ organization) as stated.

STUDENT NAME	: MUHAMMAD ISKANDAR RIDWAN BIN MAHZURI
STUDENT NO.	: 2019335-242
ID NO.	: 010705 - 03 - 0343
PROGRAMME	: DIPLOMA IN CIVIL ENGINEERING (EC110)
SEMESTER	: 6
REPORT DATE	: 28 MARCH 2022
INDUSTRIAL TRAINING ADDRESS	: JKR DAERAH KOGAN, JALAN TAMAN SRI SERAMAT, KAMPUNG PAYA PASIR, 81500 KOGAN, JOHOR
DURATION / PERIOD	: 19 WEEKS 3 DAYS (28 MARCH 2022 - 27 JULY 2022)

Thank you.

Yours sincerely,

(Signature and Company /Organization Stamp)
Ir. MOHD HANIFF BIN HASANUDDIN
Jurutera Daerah
JKR Kogan

LI 06 Current Location Information Form

Fakulti Kejuruteraan Awam
Faculty of Civil Engineering
Tel : 607-3915309 / 3139 / 3128
Fax: 607-3818141

UNIVERSITI TEKNOLOGI MARA
CAWANGAN JOHOR
Kampus Pasir Gudang, 81750 Masai, Johor.
Tel: 607-3818000 Fax: 607-3818141

UNIVERSITI TEKNOLOGI MARA

UiTM.FKA.LI-06

CURRENT LOCATION INFORMATION FORM
(Borang Maklumat Penempatan Semasa)

A) STUDENT INFORMATION *(Maklumat Pelajar)*

Name *(Nama)*	: MUHAMMAD FIRDAUS IKHWAN BIN NORZURI	**UiTM No.** *(No. UiTM)* :	2019285942
Programme *(program)*	: DIPLOMA IN CIVIL ENGINEERING (EC 110)	**ID No.** *(No. K/P)* :	010205-03-0293
Session *(sesi)*	: MARCH 2022- AUGUST 2022	**Semester** *(Semester)* :	6
Address *(alamat)*	: NO 130 BLOK 4/1 FELDA JENGKA 23, 26460 BANDAR PUSAT JENGKA, PAHANG		
Phone *(Telefon)*	:	**Mobile No.** *(No. H/P)* :	011-11220947
Email *(emel)*	: ikhwan1ikhwan36@gmail.com		

B) ORGANIZATION INFORMATION *(Maklumat organisasi)*

Name *(Nama)*	: JABATAN KERJA RAYA DAERAH MARAN
Address *(alamat)*	: JALAN TAMAN SRI KEMAMAT, KAMPUNG PAYA PASIR, 26500 MARAN, PAHANG
Contact Person *(Pegawai yang boleh dihubungi)*	: WAN NURUL HANIM WAN MOHAMAD
Designation (Jawatan)	: PENOLONG JURUTERA JA36
Phone *(Telefon)*	: 09-4771911
Mobile No. *(No. H/P)*	: 011-25459053
Fax No. *(No. Faks)*	: 09-4771913
Email *(emel)*	: wannurulhanim@gmail.com

WAN NURUL HANIM BINTI WAN MOHAMAD
PENOLONG JURUTERA (JA36)
JABATAN KERJA RAYA
DAERAH MARAN

Signature *(Tandatangan)*

11th April 2022
Date *(tarikh)*

* Kindly mail this form to the Faculty of Civil Engineering, UiTM Pasir Gudang via fax/post/email within a week to:

Industry Training Coordinator,
Faculty of Civil Engineering
Universiti Teknologi MARA
Cawangan Johor Kampus Pasir Gudang
Jalan Purnama 81750 Masai Johor

Office use:	Checked by:		Approved by:	

(u / p: Mohd Firdaus bin Mohd Akhbar, fax to: 607-3818141 or email: firdausakhbar@gmail.com)

APPENDIX B

Faculty Supervisor 2022

UiTM.PKA.LI-10 (Dec 2021) *School of Civil Engineering, College of Engineering, Universiti Teknologi MARA*

PROGRESS ASSESSMENT FOR INDUSTRIAL TRAINING
(Faculty Supervisor Evaluation Form)

Student Information			
Name	[illegible]	UiTM No.	[illegible]
Programme	DIPLOMA [illegible] (CEC)	ID No.	[illegible]
Session	MARCH 2022 - AUGUST 2022	Semester	[illegible]
Date of Commencement	28 MARCH 2022	Date of Completion	[illegible] 2022
Organization Information			
Organization	[illegible]		
Name of Supervisor	[illegible]		
Designation	[illegible]		
Faculty Supervisor Information			
Name	MOHD FIRDAUS BIN MOHD AKBAR		

No.	Criteria	CO3-PO4	CO1-PO5	CO6-PO8
		(DP5,DP6)	(DK6, DP1,DP4)	(DK7)
1	Awareness of the responsibility to work in an ethical and professional manner			/5
2	Able to recognize the suitable standard/ appropriate techniques and modern engineering or IT tools to the civil engineering problems.		/5	
3	Able to initiate the the appropriate techniques, and modern engineering or IT tools to solve civil engineering problems.		/5	
4	Able to operate the given task under supervision with relevant codes /standard measurement	/5		
5	Behave according to the safety [illegible]			/5
6	Ability to perform, gather and interpreting data which leading to the findings on the given problem	/5		
	CO-PO MARKS	/10	/10	/10

Signature & Official Stamp
(Faculty Supervisor)

Date

15%

Industrial Supervisor 2022

PROGRESS ASSESSMENT FOR INDUSTRIAL TRAINING
(Industrial Supervisor Evaluation Form)

Student Information			
Name	MUHAMMAD SHAZWAN BIN WAZLIM	UiTM No.	2014335252
Programme	DIPLOMA IN CIVIL ENGINEERING (EC110)	ID No.	010530030253
Session	WAY2022/2 - AUGUST 2022	Semester	6
Date of Commencement	28 MAY 2022	Date of Completion	27 JULY 2022
Organization Information			
Organization	JCT [illegible]		
Name of Supervisor	WAN MURULLAH BIN WAN MOHD		
Designation	[illegible]		
Comments/recommendations by the Supervisor			
Faculty Supervisor Information			
Name	MOHD FIRDAUS BIN MOHD AKBAR		

No.	Criteria	Score (Poor)	Score (Fair)	Score (Good)	Score (Excellent)
1	[illegible]			4	
2	[illegible]				5
3	[illegible]	2			
4	[illegible]		3		
5	[illegible]				5
6	[illegible]		3		
7	[illegible]		3		
8	[illegible]			4	
9	[illegible]	2			
10	[illegible]	2			
11	[illegible]	2			
12	[illegible]				

Signature & Official Stamp
(Industrial Supervisor)

Date

48/50%

Logbook 2022

UITM.PKA.LI-08 (Dec 2021) *School of Civil Engineering, College of Engineering, Universiti Teknologi MARA*

UNIVERSITI TEKNOLOGI MARA

PROGRESS ASSESSMENT FOR INDUSTRIAL TRAINING
(Logbook Evaluation Form)

Student Information			
Name	[illegible]	**UiTM No.**	[illegible]
Programme	EC110 DIPLOMA IN CIVIL ENGINEERING	**ID No.**	[illegible]
Session	MARCH 2022 - AUGUST 2022	**Semester**	[illegible]
Date of Commencement	[illegible] MARCH 2022	**Date of Completion**	[illegible] JULY 2022
Organization Information			
Organization	JKR DAERAH MARAN		
Name of Supervisor	[illegible]		
Designation	ASSISTANT ENGINEER JA29		
Faculty Supervisor Information			
Name	MOHD FIRDAUS BIN MOHD ABBAS		

No.	Criteria	CO2-PO3 (DP1,DP2,DP3, DK5)	CO5-PO12 (-)
1	Skill in writing a logbook		/5
2	Quality of work delivery		/5
3	Technical engineering content at least 80%, with design solution for well-defined technical problems	/5	
4	Allocate problems & analysis	/5	
	CO-PO MARKS	/10	/10

Signature & Official Stamp
(Faculty Supervisor)

....
Date

10%

PROGRESS ASSESSMENT FOR INDUSTRIAL TRAINING
(Placement Report Evaluation Form)

Student Information			
Name	[redacted]	UiTM No.	2019235252
Programme	DIPLOMA IN CIVIL ENGINEERING (EC110)	ID No.	000[redacted]252
Session	MARCH 2022 - AUGUST 2022	Semester	6
Date of Commencement	28 MARCH 2022	Date of Completion	26.8.2022
Organization Information			
Organization	JKR DSERAH MARAN		
Name of Supervisor	[redacted]		
Designation	ASSISTANT ENGINEER (A36		
Faculty Supervisor Information			
Name	[redacted]		

No.	Criteria	CO2-PO3 (DP1, DP2,DP3,DK5)	CO4-PO10 (NA4)	CO5-PO12 (-)
1.	Executive Summary	/5		
2.	Introduction on the organization			/5
3.	Report content		/5	
4.	Conclusion, recommendation, and evaluation for Industrial Training			/5
	CO-PO MARKS	/5	/5	/10

Signature & Official Stamp
(Faculty Supervisor)

Date

15%

Colloqium 2022

PROGRESS ASSESSMENT FOR INDUSTRIAL TRAINING
(Colloquium Evaluation Form)

Student Information			
Name	[redacted]	UiTM No.	[redacted]
Programme	DIPLOMA IN CIVIL ENGINEERING (EC110)	ID No.	000905050252
Session	MARCH 2022 - AUGUST 2022	Semester	[redacted]
Date of Commencement	28 MARCH 2022	Date of Completion	23.9.2022
Organization Information			
Organization	JKR DAERAH TARAN		
Name of Supervisor	[redacted]		
Designation	ASS STANT ENGINEER JKR		
Faculty Supervisor Information			
Name	[redacted]		

No.	Criteria	CO4-PO10 (NA1,NA2,NA4)	CO5-PO12 (-)
1.	Presentation skill.	/5	
2.	Organization background, scope of work covered, previous and current project undertaken by the organization.		/5
3.	Ability to explain scope of work and relate to practical and/or theoretical knowledge by referring to the specification and/or standards.		/5
4.	Ability to engage independently in subject knowledge during Q&A sessions.		/5
	CO-PO MARKS	/5	/15

Signature & Official Stamp
(Faculty Supervisor)

Date

10%