UNIVERSITI TEKNOLOGI MARA

FACULTY OF CIVIL ENGINEERING

INDUSTRIAL TRAINING REPORT

PREPARED BY

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(2017253188)

REPORT ON DUTY @

AME CONSTRUCTION SDN BHD

PLOT D28F-1 , JALAN DBP/3, SEBAHAGIAN PTD 2423,
PELABUHAN TANJUNG PELEPAS ,
MUKIM TANJUNG KUPANG, JOHOR BHARU, JOHOR
(OCT2020 - EFB2021)

FINALISED BY

SIR AHMAD IDZWAN BIN YUSUF

ABSTRACT.

Industrial Training is a compulsory requirement for student in certain programs at all level of higher education in Institution of Higher Learning . To increase the level of graduate able to work , industrial training program was introduced to strength the competencies required. I was having my industrial program at AME CONSTRUCTION SDN BHD , located at I-Park Senai and being placed at Port of Tanjung Pelepas. The duration for this internship is about more than eighteen weeks started from 12 October 2020 till 10 February 2021. Here in this training , Im being assign under Quality Control Department , under supervision of my supervisor , En Ahmed Redzuan Bin Razali , Senior QAQC Engineer . Here in this department , Im being trained to prepared required document for every work and joined the inpection for every structure with consultant agencies. For this industrial training , ive gained so much experience and have been exposed to variety of actual site condition , compared to what ive learn theoretically before. Ive learn to inspect the rebar and formwork of every structure , type of machines that been used to concrete work , how to overcome some discrepancy and so on. Industrial training refers to exposed student to real life experiances of the engineering of work and to get involved in civil engineering project before graduation After experience by myself , I realizes that there still alot of things I need to remastered in order to not only be a good engineer , but also good at making decision in every problem. Last but not least , I hope this program should be continue as the student will get more knowledge on what they studied for this six semester. Life is tough , so we have to be tougher.

ACKNOWLEDGEMENT.

I started my industrial training programme under contractor company, AME CONSTRUCTION , Senai I-Park and then transfered to Pelabuhan Tanjung Pelepas , Johor Bahru on 12 October 2020 to 10 February 2021. The aim of this industrial training is for the award of Diploma in Civil Engineering is that the student must complete at least 18weeks of this program after pass all the courses taken from previous semester. First of all , I would like to thanks my faculty supervisor , Sir Ahmad Idzwan bin Yusuf for guiding me during this program. Not to forget , my industrial supervisor , En Ahmed Redzuan Bin Razali for guide and giving me and opportunity to get involved in this expansion factory project. Also need to mention all the staff amd workers in AME CONSTRUCTION that willingly give me their cooperation and some of their knowledge in civil engineering. For my future sake , I hope that I can use all the experiences gained in this program to be what Ive learn before.

Table of Contents

Chapter 1: Introduction

1.1 Introduction

Industrial training courses give students learning opportunity in the world of work and to get them involved in Civil Engineering project before graduation. Its one of the requirement for the award of Diploma in Civil Engineering is that students must complete a semester of Industrial Training after pass all the courses taken from semester 1 to semester 5. The technical and non technical outcomes of the course may be assessed and evaluated through this industrial training.

The objective for this program is include

1. Interpretation of contract specification and involvement in project management
2. Able to prepared the required report , appreciation of clients requirement
3. Make student more confident before start facing real world after graduates
4. Have insights into the professional life of engineering.
5. Attending site visit , to see how works initiated

1.2 Background of the Company

AME CONSTRUCTION

SDN BHD.

Figure 1.1: AME CONSTRUCTION SDN BHD

AME Construction was established in 1995 to provide high quality construction services to wide range of clients , specializing in the construction of purpose-bulit building , mainly on factory and warehouse building. AME Construction registered with the CIDB as a G7 contractor , the highest classification accorded by CIDB where AME Construction is allowed to tender for a construction contract for unlimited value. Over the past 20 years of involvement in the industries, this company has completed over 200 projects involving clients from Europe , Asia Pacific and America , investing in the Asia Pacific region.

1.2.1 WHAT WE DO ?

AME Construction can deliver both full construction logisrtic and self deliverd preliminary solution on large and complex project , delivering contruction logistic packages.

1. Processing plant
2. Storage solution
3. Oil & Gas Related
4. Oleo Chemical
5. Industrial Real Estate Solution
6. Consumer & Food product

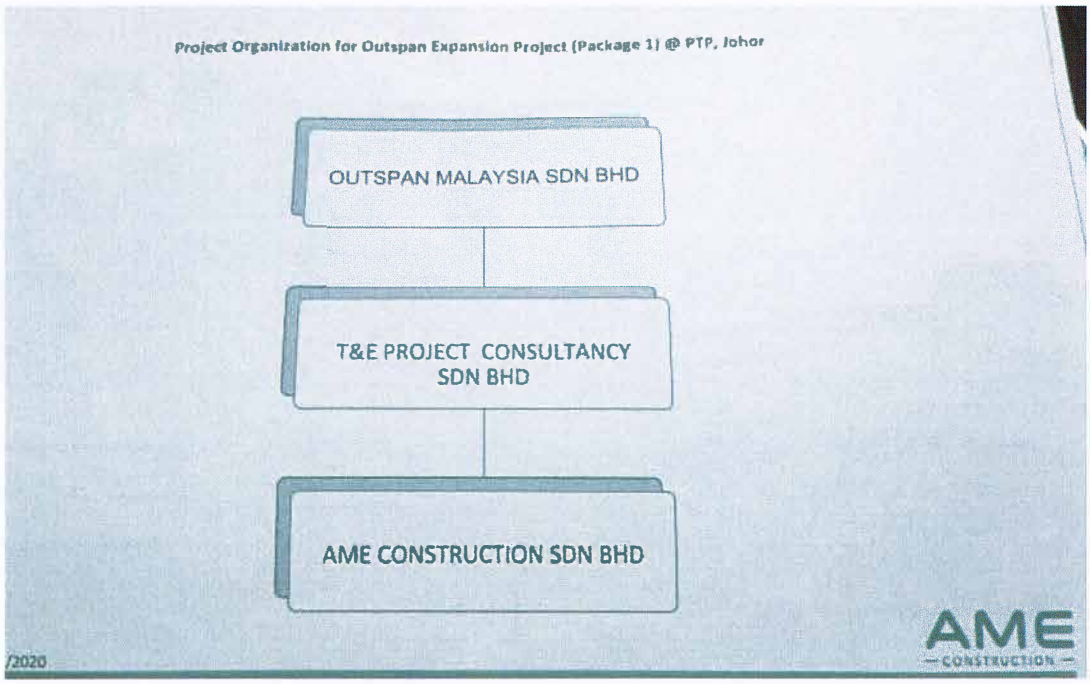
AME INTERGRATED SOLUTION

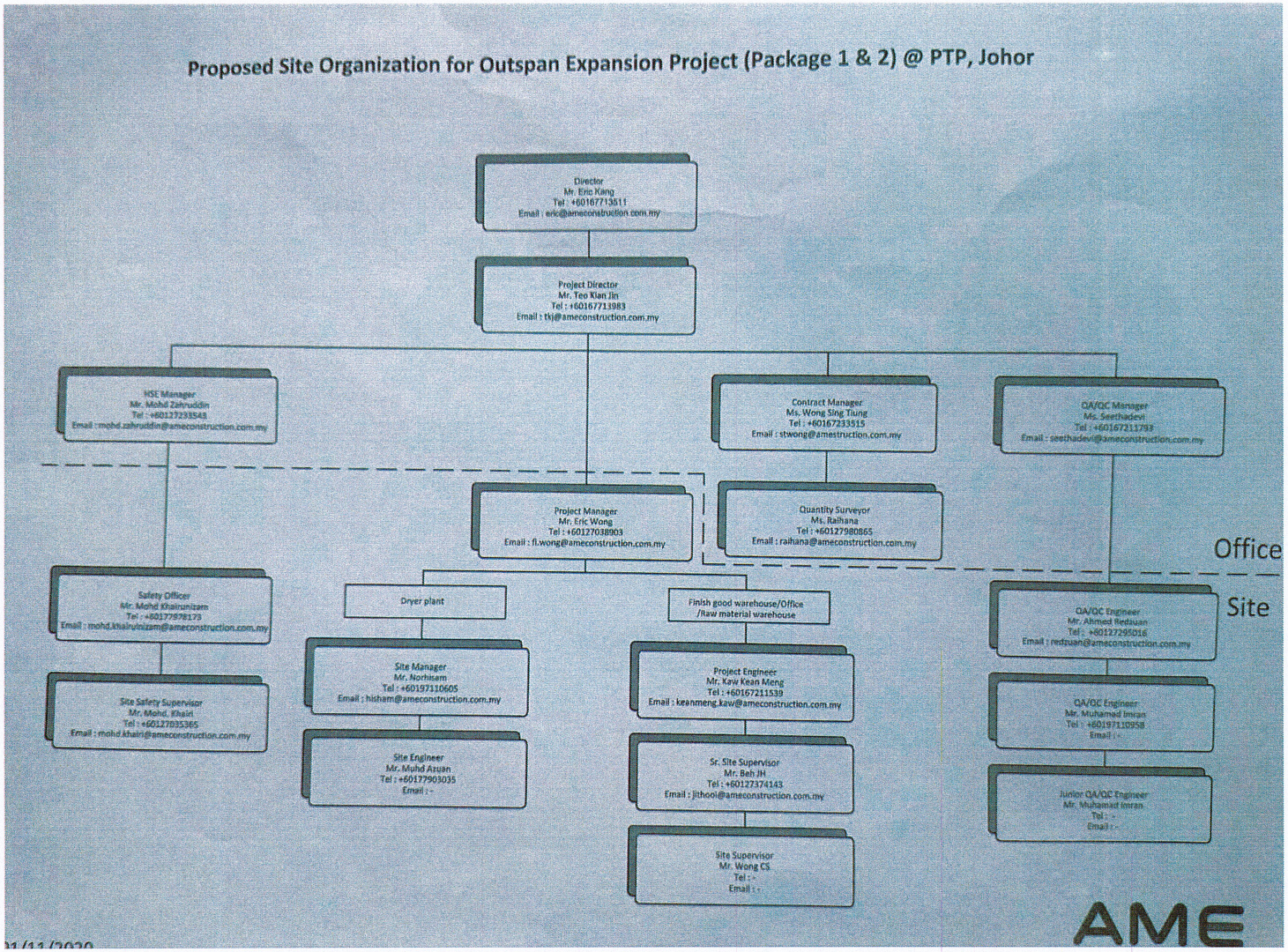
- Planning and scoping
- Construction Management
- Design
- Post Contruction Management.

1.3 Organizational Structure

AME CONSTRUCTION SDN BHD

Figure 1.3: Organization chart yard operation department

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AME

1.4 Conclusion

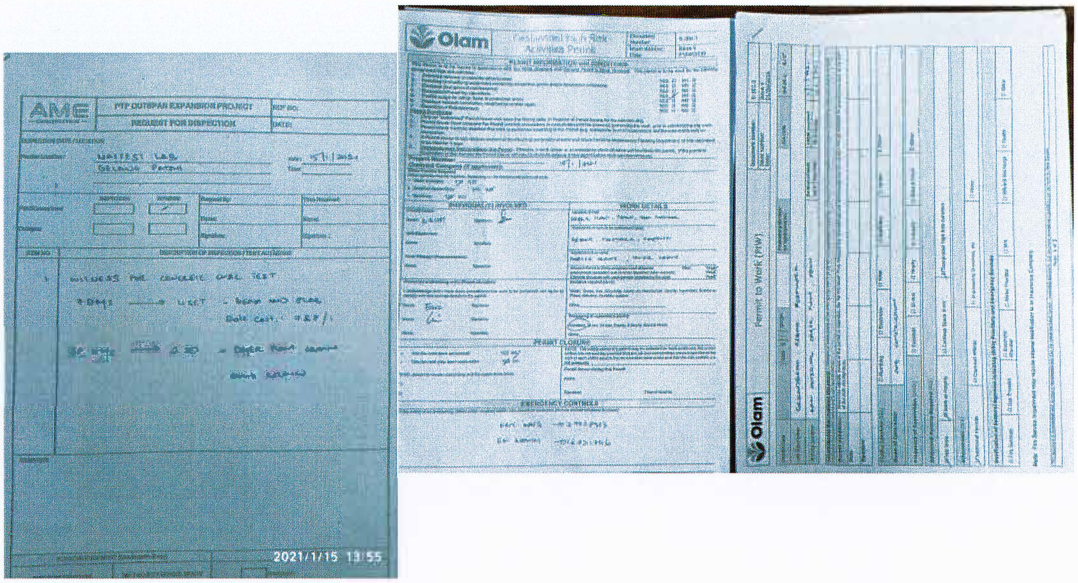
For the conclusion , I should be grateful to be join in this experience company as they taught me many things about Civil Engineering , how they overcome the problems , how they cooperate with other sub contractor to get this project successfully finished within the time stated in contract they have agreed with. In future being , hope can cooperate with this company as the professionalism they has shown to me. I strongly believe that with experience I gained here will make me a better person with great skill in Civil engineering fields.

Chapter 2: Training Attended (Weekly summary based on logbook)

2.1 Introduction

For this industrial training program, students are required to write down on the logbook , the report on what they have been doing from the day start to the last day everyday and must get signature at the below of the report written. The report must have at least a photo to show dedication of the student participate the program. In the logbook also , there were attached some evaluation form need to be fill by industrial supervisor and faculty supervisor.

2.2 Exposure level



Week 1 (Oct 12, 2020 - Oct 18, 2020)

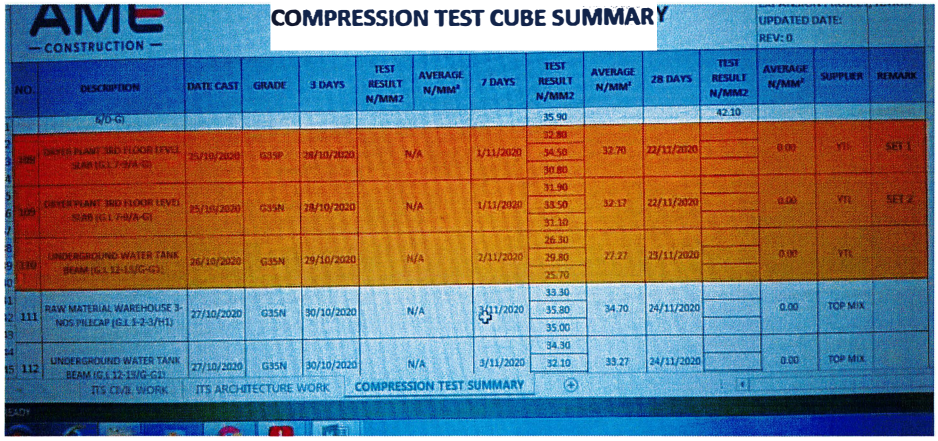
Ive report myself at AME CONSTRUCTION office on 12 October . Ive been introduced to my manager department and all staff. Next day ive been transfered to Tanjung Pelepas for my internship. I been inducted to all rules applied in this Port and inducted about safety during work in site. During this induction , I learn that wearing PPE is very important and compulsory . If I break one of the rules , I may be fine up to RM50.00 Ive learnt on how to find drawing , preparing Request For Inspection (RFI) , preparing Permit To Work (PTW) .

Week 2 (Oct 19, 2020 - Oct 25, 2020)

This week I start to follow and join the internal inspection and inspection with QC and COW for every structure need to inspect. Most of the inspection are including underground structure like ground beam and pile cap as the project is still in early stage. I also start to witnessing concrete cube test at Nattest Lab . Its compulsary for any construction to do this test because to see if the concrete ordered from the supplier is correct and archive the required strength. Most of the time we ordered concrete grade 35N/P.

Week 3 (Oct 26, 2020 - Nov 1, 2020)

This week I continued my daily routine. I joined internal inspection and inspection , witnessing cube test. I start to communicate with workers to give them information from the drawing. This time I start inspecting column. The thing ive to check most important thing is verticallity. This is important because if the column is not straight enough , it will effect the strength as this building with cater heavy machinery load.



AME — CONSTRUCTION —

COMPRESSION TEST CUBE SUMMARY

UPDATED DATE:
REV: 0

NO	DESCRIPTION	DATE CAST	GRADE	3 DAYS	TEST RESULT N/MM2	AVERAGE N/MM²	7 DAYS	TEST RESULT N/MM2	AVERAGE N/MM²	28 DAYS	TEST RESULT N/MM2	AVERAGE N/MM²	SUPPLIER	REMARK
								35.90			42.10			
108	DRYER PLANT 3RD FLOOR LEVEL SLAB (G-1 7-9/A-G)	25/10/2020	G35P	28/10/2020	N/A		1/11/2020	32.80 34.50 30.80	32.70	22/11/2020		0.00	YTL	SET 1
109	DRYER PLANT 3RD FLOOR LEVEL SLAB (G-1 7-9/A-G)	25/10/2020	G35N	28/10/2020	N/A		1/11/2020	31.90 33.50 31.10	32.17	22/11/2020		0.00	YTL	SET 2
110	UNDERGROUND WATER TANK BEAM (G-1 12-13/G-G1)	26/10/2020	G35N	29/10/2020	N/A		2/11/2020	26.30 29.80 25.70	27.27	23/11/2020		0.00	YTL	
111	RAW MATERIAL WAREHOUSE 3-NOS PILECAP (G-1 1-2-3/H1)	27/10/2020	G35N	30/10/2020	N/A		3/11/2020	33.30 35.80 35.00	34.70	24/11/2020		0.00	TOP MIX	
112	UNDERGROUND WATER TANK BEAM (G-1 12-13/G-G1)	27/10/2020	G35N	30/10/2020	N/A		3/11/2020	34.30 32.10	33.27	24/11/2020		0.00	TOP MIX	

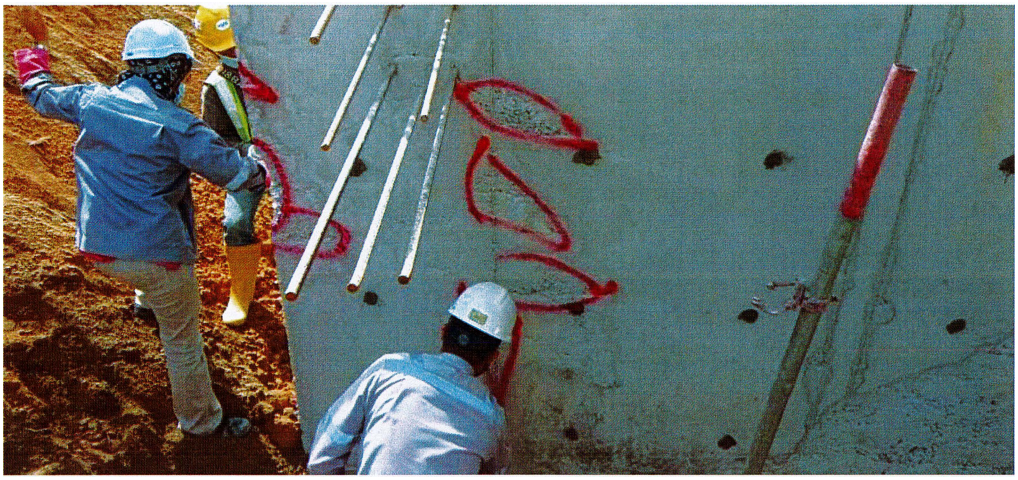
ITS CIVIL WORK | ITS ARCHITECTURE WORK | COMPRESSION TEST SUMMARY

Week 4 (Nov 2,2020 - Nov 8, 2020)

This week I continued my daily routine . Joining inspection , preparing inpection form , permit to work and witnessing cube test. This time I started to fill cube test summary form , basically a table about result on 7days and 28days which stated also the structure and the supplier company name.

Week 5 (Nov 9,2020 - Nov 15,2020)

For this week , I continued my daily routine as usual. Joining inspection , preparing inspection form , permit to work and witnessing cube test. I also being assign to witnessing for application of PU flooring trial pack work to show to the client how its apply. Besides act as finishing , PU flooring is basically a layer that prevent dirty or dust , or something not clean from being at the edge that cleaner can approach to clean because this factory is food industry. This flooring need to be apply at right temperature cant be to high cant be to cold.



Week 6 (Nov 16, 2020 - Nov 22, 2020)

This week also still continue my daily routine , joining inspection , preparing inspection form , permit to work and witnessing cube test. This week , I joining the short meeting on some issue that has been appointed , that is honeycomb. We discuss how to overcome the honeycomb , the thing that cause honeycomb.

Week 7 (Nov 23, 2020 - Nov 29, 2020)

This week , I continued to doing my daily routine , joining inspection , preparing inspection form , permit to work and witnessing cube test . This week I get and order to form COW to checked out the place that cube been cure. Take some photo and then report to my supervisor and COW.

Week 8 (Nov 30, 2020 - Dec 6, 2020)

On first day in this week , there have been fire drill initiated. This program is one of the requirement in every site to see the reflection of all people when there is emergency situation happen. As always , I also doing my daily routine , preparing inspection form , joining inspection , preparing permit to work and witnessing cube test at Nattest lab. This week , there is a short meeting between QC and sub contractor that doing bricklaying about method of statement. This is basically a briefing about quality control on bricklaying.

Week 9 (Dec 7, 2020 - Dec 13, 2020)

This week , I continued to do my daily routine , joining inspection , preparing request inspection form , daily permit to work and witnessing cube test. Unfortunately , in this week , we all site office staff had to do swab test as one off our staff close contact with positive Covid 19 patient so , we all take leave for quarantine. In few days , glad to hear we all get negative result and continue to work.

Week 10 (Dec 14, 2020 - Dec 20, 2020)

This week, as usual I continued doing my daily routine , preparing daily permit to work , inspection form , joining inspection and witnessing cube test.

Week 11 (Dec 21, 2020 - Dec 27 , 2020)

For this week , I continued to doing my daily routine at site office first, preparing permit to work , inspection form , joining inspection and witnessing cube test.

Week 12 (Dec 28, 2020 - Jan 3, 2021)

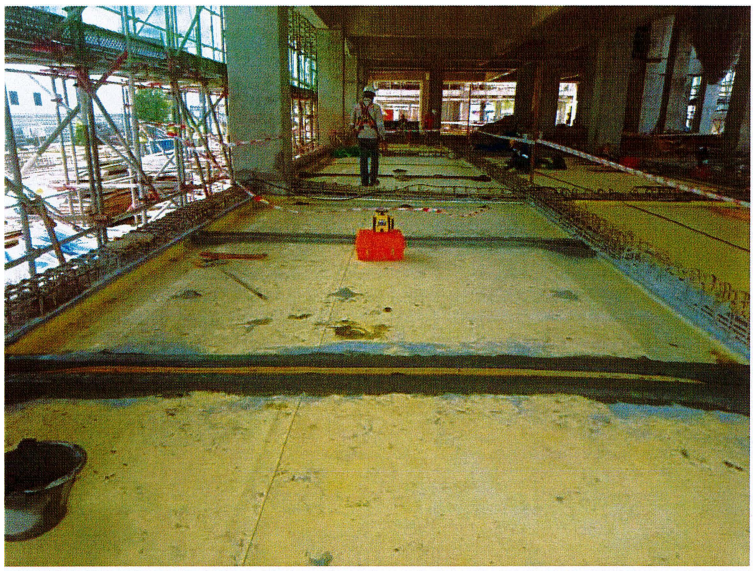
I continued doing what ive assign to do daily, permit to work , inspection form , joining inspection and witnessing cube test. On this week , there is a celebration for archieving 100,000 Safe Man Hours Without Losing Time Incident (LTI). Also , there is a briefing with workers about quality control for concreting because to prevent other issues happen like honeycomb.

Week 13 (Jan 4, 2021 - Jan 10, 2021)

This week , I continued my daily routie , preparing inspection form , daily permit to work , joining inspection and witnessing cube test. Ive also sometimes helps my team updating any drawing , print it and put it in file so we aware of any changes.

Week 14 (Jan 11, 2021 - Jan 17 , 2021)

As usual , I continued my daily routine at site office, joining inspection , preparing daily permit to work , request inspection form and witnessing cube test. For this time , our column little bit higher than before , we using sailor , or some tunnel for concrete to the concrete fall form the tank is perfect to prevent disaggregation



Week 15 (Jan 18, 2021 - Jan 24 , 2021)

This week , as usual I do my daily routine work , preparing inspection form , daily permit to work , joining inspection and witnessing cube test. This week have started to concrete the slab , so im helping my supervisor on inspecting application on water proof membrane , that been apply before concrete slab. Basically the function is to prevent form water get pass trough slab so the slab maintain its strength. This week ive been receive a letter from UiTM said that we have to Work From Home but due to unexpected information , ive to still work at site for a couple days.

Week 16 (Jan 25, 2021 - Jan 31, 2021)

This week have some discussion with safety department and scalfolder team on scalfolding issues. So there is need some adjustment on how they work . As usual , I do continue my daily routine , preparing inspection form , daily permit to work , joining the inspection , and witnessing the cube test. I also follow my supervisor on witnessing sand get compacted after underground piping work has done. When we want to compact the sand , they spray some water to get more compact.

Week 17 (Feb 1, 2021 - Feb 7 , 2021)

This week as usual , I do continued my daily routine , preparing inspection form , daily permit to work , joining inspection and witnessing cube test. Ive been introduce to new apparatus to me , I didn't remember its name but the function is basically for levelling.

Week 18 (Feb 8 , 2021 - Feb 10 , 2021)

On this final week , I do more focus on my industrial training report. Same as before , I do continued my last time preparing permit to work , inspection form and witnessing cube test. For this last week , I told to my supervisor what am I doing for this semester so that he know and aware , and can continue my responsibility in here.

2.3 Conclusion

For the conclusion , it is good when this industrial training program required a semester or 18 weeks to complete this diploma as the student can be exposed to real life world of construction or Civil Engineering world. As the student be exposed , the student can adapt and compare on what they've learn in class before. For the future , student can also use this experiences when to get real job and handle a situation when it need to use critical thinking. I may doing the same thing this entire semester , but Ive seen the real situation in construction site. Unfortunately , if the students not get involve seriously with their program , they should be feel ashamed for them self because this opportunity come only once. This is the right time student need to learn before get into real world. This is the right time to see if we really understand on what we learn before.

Chapter 3: Technical report

3.1 Introduction

This technical report was basically how I apply the knowledge I gain during in class before into this industrial training program. Other than that , I also learn new things that ive never learn before. Before this in class , I've learn on how to design structure , do some calculation on estimation. But in this program , they give me the chance to do inpection on site all the specification in the drawing . With this activity , I can understand better

Inspection

This project that I get involved is basically an Expansion of Factory , which means they apply reinforced concrete and steel structure. As an QC internship student , most of the work I get involve is inspection. As we know there is a drawing that show us the detail and specification as we need to follow , as a QC internship student , as an example , I've been assign to check the rebar before can proceed to formwork , the formwork before can proceed to concrete and so on. Before I join the inspection , I have to study the drawing first so I can get prepared. If there is some issues or not follow the specification , I will forward or report to site engineer or site supervisor on how to settle this issues.

Figure 3.1: Inspection work

Compulsary in inspection since I get involve is :

- Checking size rebar , lapping rebar , spacing rebar , rebar condition (rusty)
- Checking formwork , alignment of formwork , cleanliness , strength of formwork , verticality of formwork
- Checking level of concrete , concrete cover , application chemical before and after concrete
- Position of opening , corbel , anchor bolt

3.2 Problem encountered and how to overcome it

Its impossible I facing no problem faced during this semester industrial training. So there is way that I and this company take to overcome to make sure everything is not gone to far and still can catch up the progress. There is many problems occurs but below I summarize up a few problems that I think critical.

- CHANGES IN DETAIL DRAWING.

Sometimes when to do the inspection , there is some discrepancy when drawing is not same as on site. So after some discussion and finding information , we found that the drawing that we refer this time is outdated , there is a new one.

So as a solution , I have to prepare early the inspection form that been attached with drawing , and after get prepared , I have to give to COW first for them to checked whether it is updated or not.

- CUBE TEST RESULT FAILED TO ARCHIEVE REQUIRED STRENGTH

My duty is to witnessing the cube being test. Mostly the concrete grade we ordered is 35N/mm2 so. If a set for 7 days is failed , its still ok , we can wait until it reach 28 days. But if 28 days failed , then we have a problem. The formwork cant be open and can disturb and delayed others work.

So as a solution , we will have some discussion with consultant and technician lab to do another test like Rebound Hammer test or Coring.

3.3 Experience gained and Conclusion

For this industrial training program , there is a lot of thing I learn in this project. In here , I experiences on how to handle inspection with consultant. I know what exactly happen when inspection.I know exactly what usually happen in site. I know how to communicate with the workers. Besides, I always get contact with site engineer , site supervisor , manager when to overcome of find some solution on a problem. I also had an experience having a meeting with the client when my supervisor not there. Then , I also experience handle cube test with technician lab when there is some dispute or misunderstanding.

As a conclusion , basically there is many experiences that i cant be forget about. Im very sure this experiences can be useful to me in the future. Im glad that this program is need to be at least 18 weeks to complete so the student can gain as much as possible experience they can.

Chapter 4: Conclusion

4.1 Introduction

After 18 weeks of industrial training program , I found that this program is important as the student can be exposed to the real world of Civil Engineer. Ive learnt a lot of things here and cant be learn in class. In here , the project is using reinforce concrete and steel structure but unfortunately , my time has come so I had experience on handling reinforce concrete structure only. But Im sure , I can learn more in the future.

4.2 Lessons learned

I can say , there is a lot of things I can learn . In this 18 weeks of my industrial training, I learned that study in classroom or indoor is not enough to gain much knowledge. We must acknowledge every work that had been assigned that particular worker. I also learn how to cooperate and communicate in order to make sure there is a progress. I learn on how to overcome problem with minimal effect and more efficient. Besides , I learn that every problem need to discuss first and don't make personal decision. We have to practice etthic in work because it somehow can effect the quality of work. We must shows that we do clean job , follow the regulation set by the authorities. I also learn that safety is very important as we don't know what will happen. I had an experience where my head get hit by scalfold as I cant see it there. I also worked at high place , so body harness is very important. I learnt that safety is not expensive it is priceless..

4.3 Knowledge gained

During my internship here, there is a lot knowledge that I gained which can help me in the future and improve my skill also. I learn on how to handle inspection with consultant. I know how to find drawing that important for that part of structure. I also know to to manage the data for ease quality control job. During my training, I know how to make sure the test cube is clean and not play dirty because some construction site do play dirty. I also know that every work must have permit so every activity in site can be control and can prevent bad things happen. Last but not least , I learn that time management and site management is very important as it can affect the progress positively and negatively. What I meant is , if good management , than the progress will be fast , and if not , the progress will be delay and as I know , if there is a delay , we may be fined. So , thats the summarize of what knowledge ive gained during my training.

4.4 Suitability of organization

AME GROUP is consist of few more department , there is AME Elite , AME Development and so on. Here where Ive my training is AME Construction. This company has handle more than 200 project so no wonder the client has choose this company to handle this fastrack project. This team consist of 10 staffs that been working in this project. I was assignt to do inspection work and preparation on some permit to work. They give me an assignment suitable to me . so I think this company is suit for student who want to start exploring engineering world.

4.5 Limitations and recommendations

For me personally , I do enjoy having my training here for the past 18weeks. They are willing to answer me when I ask some question that I want to know. They also giving a chance involved in this fastrack project as they know im still new to this world. Im sure I will recommend to my friend who still looking for training place as they can give you an experiences that they will never forget.

4.6 References.

- Mr Ahmed Redzuan Bin Razali , Senior QAQC Engine

UNIVERSITI TEKNOLOGI MARA

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TARIKH / *Date* :	**TARIKH** / *Date* :

2	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	MUHAMMAD NAJMI NAJHAN BIN MOHD AZHAN	2023
24	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	NURUL NAJWA BT ABDDULLAH SANI	2021
25	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	QIATINA HAYANI BT JANI	2021
26	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	NUR AMIRA IZZATI BT ROZAIDI	2021
27	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	MUHAMMAD DANISH AKMAL BIN KHALID	2021
28	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	SYED MOHAMED ADAM IKMAL BIN SYED MOHD SHAH	2021
29	REINFORCED CONCRETE BUILDING DESIGN PROJECT	MUHAMMAD SOLLEHHUDDIN BIN ABD MUTALIB	2021
30	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	NUR NAJWAN AIZAM BIN ROSHAIDI	2021
31	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	MUHAMAD HAZIQ BIN KHAIRUL NIZAM	2023
32	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	AHMAD SHARUL BIN SAHARUDIN	2022
33	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	ALI MIFDZAL BIN MARZUKI	2023
34	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	AHMAD FARIS BIN AHMAD NIZAM	2022
35	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	NURUL AMYRA BT MOHD HUZAINI	2019
36	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	MUHAMMAD BADRUL MUNIR BIN BADRUL ISHAM	2022
37	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	MUHAMMAD IMAN HAKIM BIN MOHD FAZLY	2022
38	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	UZAIR ABDULLAH HAFIY BIN SABARIN	2022
39	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	MUHAMMAD EIMIR IDHAM BIN BUANG	2021
40	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	NUR ASMAHAMIZAH BT ZAILANI	2022
41	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	ANIS BALQIS IRDINA BT JAMAL NASIR	2022
42	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	NURANISA BT MOHAMAD SAJIM	2021
43	INDUSTRIALTRAINING	ROHANI BINTI MOHAMAD KHALID	2021
44	INDUSTRIALTRAINING	MOHAMED AZREE BIN MOHAMMED OMAR	2020
45	INDUSTRIALTRAINING	NUR AMIRA HASNAA BT ZAINUDIN	2021
46	INDUSTRIALTRAINING	MOHAMAD IMRAN BIN ZAIDON	2021

2	REINFORCED CONCRETE BUILDING DESIGN PROJECT & PROJECT BASED LEARNING	MUHAMMAD NAJMI NAJHAN BIN MOHD AZHAN	2023
47	INDUSTRIALTRAINING	AMAL IKRAMUDDIN BIN KHAIRUNNAZIR	2021
48	INDUSTRIALTRAINING	MUHAMMAD FAHIM IMRAN BIN MOHD FADZLI	2021

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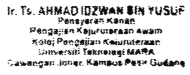

Tarikh : 23/7/2024