STUDENT DETAILS

Name : Muhammad Firdaus Aiman bin Mispuriad I/C No : 990220-01-5251

Program : SEMO Year of Study : 3

Permanent Address : No. 24, Jalan Molek 6 H/P No : 017-7430678
Taman Sayang Indah, Bandar Tenggara, 81440, Kulai
Johor

Guardian's Name : Mispuriad bin Sam Phone No : 018 373 5807

Guardian's Address : No. 24, Jalan Molek 6, Taman Sayang
Indah, Bandar Tenggara, 81440, Kulai, Johor

ORGANIZATION/INDUSTRI INFORMATION

Name : Telphone Technology (M) Sdn. Bhd

Phone No : 07 6633322 Fax No : 07 6631323

Coordinator's Name : Zulkipli

Duration of Training : Position : Supervisor.

From : 25/7/2022

To : 14/10/2022

TELPHONE TECHNOLOGY (M) SDN. BHD. Co. No. 487-09-D

UNIVERSITY/FACULTY DETAILS

School of Mechanical Engineering
Universiti Teknologi Malaysia
81310 UTM Johor Bahru
Johor Darul Ta'zim

Supervisor's Name

ZULKIPLI BIN SULAIMAN (Dr)

Telefon : 07 – 5557057
Fax : 07 – 5566159
E-Mail : tpfkm@mail.utm.my
Web-Site : http://www.fkm.utm.my
Person should be contacted in case of emergency :

- Dean
- Deputy Dean (Academic)
- Chairman of the Industrial Training

Preface

This log book is divided into 2 parts. The first part (Chapter 1 to 4) contains industrial training guidelines, log book instructions and filling up guidelines and guidances of preparing the industrial training final report. The second part (Chapter 5) contains tables of activity assessment form to be completed by relevant parties.

Section 8.1 - Student Overall Industrial training activities Gantt Chart

Section 8.2 - Table of Daily/Weekly Student Activity and Assessment Form by Company/Organization Supervisor

Section 8.3 - Assessment Form of Overall Student Activity by Faculty Supervisor

Section 8.4 - Table of Detailed Student Activity

This information will serve as a guidelines for the student while performing their industrial training. Also students should know their role and responsibilities.

Finally, it is hoped that all parties namely the students, company or organization and the faculty herself will benefit accordingly from the industrial training. It is also hoped that they will be able to accommodate themselves at the training place and be able to perform the task and responsibility given to them excellently.

To the companies/organization that have been willing to accept and train our students, the faculty would like to thank you and we hope that the good relationship will last with beneficial outcome to both parties.

Industrial Training Committee
School of Mechanical Engineering
Universiti Teknologi Malaysia

CONTENTS

STUDENT/COMPANY/ORGANIZATION AND UNIVERSITY/FACULTY DETAIL

1.0 INDUSTRIAL TRAINING GUIDELINES, FACULTY OF MECHANICAL ENGINEERING (FME), UNIVERSITI TEKNOLOGI MALAYSIA (UTM)

1.1 INTRODUCTION

1.1.1 Background

All Faculty of Mechanical Engineering undergraduate students are compulsory to attend 12 weeks Industrial Training during the period of their studies. This training is part of teaching course that provides exposure to the world of careers for students to all the theories which learnt in the lecture room with reality and are willing to be involved in the work environment.

1.1.2 Related Programs for Industrial Training

Bachelor programs that required Industrial training are as follows:

i) Bachelor of Engineering (Mechanical) (SEMM)
ii) Bachelor of Engineering (Naval Architecture and Offshore Engineering) (SEMO)
iii) Bachelor of Engineering (Mechanical – Aeronautics) (SEMT)
iv) Bachelor of Engineering (Mechanical - Automotive) (SEMV)
v) Bachelor of Engineering (Mechanical - Materials) (SEMB)
vi) Bachelor of Engineering (Mechanical - Manufacturing) (SEMP)
vii) Bachelor of Engineering (Mechanical - Industrial) (SEMI)

Students will undergo training in Year Three in the short semester of their studies. To undertake this Industrial Training, students must pass the core courses (SEMM 2123, SEMM 2223, SEMM 2323, SEMM 2423, SEMM 2433, SEMO 2123) and obtained at least a total of 80 credits and minimum grade D- (30%).

2.0 GOALS OF INDUSTRIAL TRAINING

The goals of Industrial Training are to enhance students' knowledge and skills to a career in their respective professions, as well as to produce graduates with professional, ethical, skilled, creative and competent.

3.0 OBJECTIVES

Industrial Training objectives are :

i) to expose students to the environment and working conditions in their respective fields
ii) to gain working experiences in the organization/industry related field of study
iii) to use the knowledge of the Industrial Training, which was followed at university
iv) to train students to interact and communicate effectively at all levels in the workplace
v) to train students to prepare technical reports related to the Industrial Training which conducted
vi) to inspire a spirit or working as a team
vii) to appreciate the ethical values of their profession

4.0 SCOPE AND TRAINING PROGRAM

The scope of training to be passed by students in the company/organization includes various aspects such as :

i) to observe organization;s operations/factories/companies
ii) to perform operations by making use of machinery and equipment
iii) to work on the installation and fabrication

iv) inspection and quality control
v) to work on process control and instrumentation
vi) to work on project design
vii) maintenance and repair of machinery and equipment
viii) installation of new equipment and testing
ix) management and administration
x) consultation

However, the scope and the actual training program depend on the type of companies/organizations involved. The program which only requires students to carry out production work alone is not sufficient and will not be ratified by the faculty.

The companies/organizations are requested to provide appropriate training to students who will work as an engineer/industrial designer after completing their studies.

Faculty supervisor will visit the company/organization monitor and discuss about student progress.

Company/organization's supervisor is requested to submit student's evaluation reports at week 12 of training, which is shortly after the end of Industrial Training.

5.0 RESPONSIBILITIES OF STUDENTS

Students who carry out Industrial Training is responsible to complete all projects and tasks given by the organization within the specified time. Particularly, other student responsibilities are :

i) to find a place and get information about jobs in the organization/industry to ratify by the Faculty's Industrial Training Committee

ii) to inform officially to the organization if students want to withdraw from training attachment and a copy letter is send to the faculty

iii) to attend a briefing/explanation on Industrial Training

iv) to inform the Faculty's Industrial training committee immediately after start of training (use form BLP-01)

v) to comply with all the organization's regulations

vi) to comply with the Universities and University Colleges Act's

vii) to ensure full attendance in the organization. The company/organization is encouraged not to give permission for students to leave during training except for emergencies or company's holiday. If students leave because of health (evidenced by medical certificate and not later than one week) the students do not need to replace the number of days off.

viii) to perform all the duties and responsibilities assigned by the organization

ix) to meet the scope of required training

x) to keep the university's reputation

xi) to cooperate with the organization all the time

xii) to contact the Faculty's supervisor immediately if any problem's raised during the training

xiii) to write notes in the log book, write final Industrial Training report and perform any other tasks given during the training

xiv) to submit all training related documents to the Faculty's Industrial Training Committee

xv) always be positive and contribute according to student ability

xvi) to make good relationship with the organization for future jobs

6.0 NOTES AND STUDENT'S REPORT

All students who undergo Industrial Training are required:

i) to write the training program (after consultation with the supervisor of Industrial Training) and work/activities undertaken during their Industrial Training in the log book.

ii) to prepare a comprehensive final report on training programs (not less than 50 pages) and the report must follow the UTM Thesis Writing Handbook's format.

7.0 LOG BOOK INSTRUCTION

i) To log all relevant industrial training activities in log book.

ii) Log book to be handed in to company/organization supervisor upon training completion for endorsement.

iii) Log book to be handed weekly to company/organization supervisor for assessment.

iv) Log book to be shown to faculty supervisor during his/her industrial visit.

v) Any misreporting in the log book will be dealt accordingly.

vi) Log book to be handed in to the faculty not later than one (1) week upon the Industrial Training completion.

8.0 GUIDELINES FOR COMPLETING THE LOG BOOK

8.1 Students Overall Industrial Training Activities Gantt Chart

Overall training planning must be done prior to the commencement of Industrial Training. This chart must be completed after discussing with company/organization supervisor. This chart must be completed not later than two (2) days after reporting to the company/organization.

8.2 Table of Daily/Weekly Student Activity and Assessment Form by Company/Organization Supervisor

These tables must be filled by student every week.

8.3 Assessment Form of Overall Student Activity by Faculty Supervisor

This is the overall students activity assessment form to be filled by faculty supervisor

8.4 Table of Detailed Student Activity

This table must be completed by students to report in details what have been summarised

9.0 ASSESSMENT OF TRAINING

The performance of students during their Industrial training and personality development should be evaluated by both faculty's supervisor and industrial's supervisor. The assessment includes quality of work and student's personality. In overall Industrial's Training assessment includes:

i) observations and reports from faculty's supervisor

ii) observations and reports from the supervisor's of the company/organization

9.1 Observations and Reports From Faculty's Supervisors and Supervisor's of the Company/Organization

9.1.1 Faculty's Supervisory Report [20%]

The performance of students during their Industrial Training assessed by the faculty's supervisor is based on face-to-face interviews with the student and feedback from industrial's supervisor. BLP-02 form is used for the purpose of this assessment. Overall mark for this report is 20%. Evaluation of supervisor reports were made through interviews that includes:

a) ability to describe clearly their training experiences. Capability to describe their adaptability with the company/organization.

b) maturity answering questions. Ability to discuss problems with supervisors.

9.1.2 Industrial/Organization Supervisory Report [30%]

Industrial supervisor is also asked to assess student's performance. The assessment of students including job performance, work and character building. BLP-03 is used (Appendix 3) for the purposes of this assessment. Overll mark for this report is 30%. Industrial's supervisors are required to provide an assessment of student performance which includes the two scopes as below:

a) Performance of work
- knowledge of work
- the credit for completing work on time
- the time taken to obtain job skills
- the need for supervision
- quality of work

b) Personality
- the ability to communicate
- initiative and motivation
- attitude towards work
- discipline

9.2 Log Book [10%]

Log Book is a student's diary. Through log book, the supervisor can understand the activities undertaken by students during their Industrial Training. Log book contains all the job experiences, discussions with supervisors, comments, data and information from the company/organization, and library's references. Overall score for the log book is 10%. The components evaluated from the log book includes:

i) tidieness of the log book (1%)

ii) confirmation by the organization's supervisor (at least once a week) (1%)

iii) description of equipment or systems to use and simple procedure (4%)

iv) the detailed of content and student's learning experiences (3%)

v) the learning experienced by students (1%)

The log book assessment is assessed by the faculty's supervisor.

9.3 Final Report [40%]

Apart from the log book, students are also required to prepare the final report. This report contains brief information about the background of the company/organization, the scope of training, the content of the training provided with detailed proposals to the company/organization and faculty and the conclusions. A copy of the final report should be sent to the company/organization if requested. Details of the final report's format is as follows:

a) Introduction (10%)
- introduction to the Industrial Training
- objective of Industrial Training
- scope of Industrial Training
- summary of Industrial Training

b) Background of Industrial/Organizational (10%)
- company profile
- organizational structure
- information on the department/unit which involves for Industrial Training
- flow chart of the industry/organization

c) Comprehensive Training Information (10%)
- description of the training was conducted in general
- the experience gained

d) Project Information/Training in Specific (40%)
- the objective of the project/training is clearly presented
- implementation of project-related training
- results of project-related training
- ability to analyze, problems solving and links all the information, procedures and projects related to the field of study

e) Conclusion (10%)
- the conclusion of the report
- problems and recommendations
- references

f) Writing Skills (10%)
- composition, sentence's structure and style
- appropriated and clearly presented all the figures, tables, chart etc

g) Format of the Report (refer to UTM's Thesis Writing Guide) (10%)
- the composition and contents of the report
- the size and format
- references formatting

10.0 MARK WEIGHTAGE

The weighted score for the whole period of Industrial Training for 12 weeks is as follows:

a. IT report - 40%
b. Industry' supervisor assessment report – 30%
c. Faculty supervisor assessment report - 20%
d. Log book - 10%

10.1 Requirement of Pass Grade for IT

i) Passing mark is 60% out of the total mark with conditions:

a. the marks on industry supervisory report must be at least 15% (from 30% of total marks of industrial's supervisory report)

b. the total score for industrial's supervisory and faculty's supervisor report must be at least 25% (from both of the two supervisors)

c) Report must be submitted to faculty

10.2 Plagiarism

Plagiarism is defined as the unauthorised use or close initation of the language and thoughts of another author and the representation of them as one's own original work by not crediting the author.

Plagiarism are considered as follows:

i) full copy of statement/sentences as one's own original statement. Statement must be repharased by using own wording and make a critetion of the sourses.

ii) adopted idea directly from the original references without criting the sources.

Plagiarism is a serious academic misconduct that may be subjected to action under the Disciplinary Rules of the University.

11.0 SUMMARY OF ACTIVITY AND ASSESSMENT FORMS

11.1 Students activity planning

11.2 Students weekly activity and assessment forms by company/organization supervisor

11.3 Overall activity assessment form by faculty supervisor.

11.4 Students detailed activity

8.1 – STUDENTS OVERALL INDUSTRIAL TRAINING ACTIVITIES GANTT CHART

Place/Department	*Types of Training	Date : 25/7/22 Upto : 30/7/22 WEEK 1	Date : 1/8/22 Upto : 6/8/22 WEEK 2	Date : 8/8/22 Upto : 13/8/22 WEEK 3	Date : 15/8/22 Upto : 20/8/22 WEEK 4	Date : 22/8/22 Upto : 27/8/22 WEEK 5	Date : 29/8/22 Upto : 3/9/22 WEEK 6
• mechanical department (workshop)	• mechanical works • Electronic components knowledgement. • Handling severals type of equipments • operational observation • working at site.	• continuity test • metal tapping process • taping PCB • pressing cylinder process • servicing • learn about water regulator • learn about water heater pump. • learn about air regulator • learn about machine probe checker • learn how to connect wire in the pin connector. • learn how to insert the wire with pin connector into EOC connector. • learn about solenoid valve	• learn how to use PTFE tape • learn about cutting machine • learn about CNC machine • Taking dimension • modification of ~~vacuum~~ leak tester • taking detail picture of ~~vacuum~~ vacuum leak tester ~~• on the tube~~ ~~label printing~~	• label the reed switch • screw banana connector • cut and installed the wire case. • Installing bracket at profile • organize tube • inserting spiral tube	• inserting wire cage case cover • learn how to use stacker printer • soldering wire • Do plastic wrapping • prepare M6 cap screw and spring washer	• went to ~~site~~ Escatec, Rebraw for site work • Do mechanical work • organise new received probe in the probe box.	• Do the wire crimping • soldering wire to connector • ~~Assemble~~ Assemble the ~~wire~~ mechanical structure • Installed switch button • ~~cleaning process~~ • ~~learn how to do planning~~

8.1 – STUDENTS OVERALL INDUSTRIAL TRAINING ACTIVITIES GANTT CHART

Place/Department	*Types of Training	Date : 5/9/22 Upto : 10/9/22 WEEK 7	Date : 12/9/22 Upto : 17/9/22 WEEK 8	Date : 19/9/22 Upto : 24/9/22 WEEK 9	Date : 26/9/22 Upto : 1/10/22 WEEK 10	Date : 3/10/22 Upto : 8/10/22 WEEK 11	Date : 10/10/22 Upto : 14/10/22 WEEK 12
• mechanical department (workshop)	• mechanical works • Handling tools skills • Operational observation • Electronic component knowledgement	• crimping wire • knock the probe receptacle • inserting probe • wrapping probe using wire	• soldering wire • Do wire crimping • inserting shrink tube • Insert label tube through wire	• soldering wire of customer's product. • Do wire crimping	• Do the wire crimping • crimping wire	• create hole slots • check the wire connection	• prepare network work

* Types of training examples

1) Handling of equipment
2) Operational observation
3) Welding and assembling work
4) Collection and analyzing data
5) Report Writing

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Student's signature

Date : 31/7/2022

.....
Supervisor's signature

Name : .....

Post & stamp : .....

Date : 1 Aug 2022

TELEKOM TECHNOLOGY (M) SDN BHD Co. No: 487409-P

8.2 – TABLE OF DAILY/WEEKLY STUDENT ACTIVITY AND ASSESSMENT FORM BY COMPANY/ORGANIZATION SUPERVISOR

SUMMARY OF ACTIVITIES — **WORKING WEEK : 1**

Date		Work Summary/Daily Activities	Duration Hours
From	Upto		
25/7	30/7	• For the ~~first~~ 1st week, in the intern place, there are several kind of training has been undergone such as mechanical ~~training~~ training, operational works observation and etc. There are also a few of mechanical components has been identified or involve in this ~~kind of~~ mechanical ~~kind~~ industries such as solenoid valve, air hydraulic system, water pump, air pump and etc.	8 hrs per day (monday - friday) 6 hrs (saturday)

Instruction to supervisor:

Please refer to the student report in Table 8.4 before accessing and commenting. Please (√) in the appropriate box.

1. Poor
2. Unsatisfactory
3. Satisfactory
4. Good
5. Excellent

WEEKLY EVALUATION OF SUPERVISOR IN COMPANY/ORGANIZATION

Work performance and student report:

Supervisor's signature & date : ..... 1 Aug 2022

Name : MKPan

Post & stamp : .....

Date : 1 Aug 2022

1	2	3	4	5
☐	☐	☐	☑	☐

TELEPHONE TECHNOLOGY (M) SDN BHD Co. No: 187-00-D

Comments:

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8.2 – TABLE OF DAILY/WEEKLY STUDENT ACTIVITY AND ASSESSMENT FORM BY COMPANY/ORGANIZATION SUPERVISOR

SUMMARY OF ACTIVITIES		WORKING WEEK : 2	
Date		Work Summary/Daily Activities	Duration Hours
From	Upto		
1/8	6/8	• In the 2nd week, it is mostly the mechanical work but has experience such as taking dimension, how to applied tools to conduct or the activity or process by using correct tools and equipment.	8 hrs per day (monday – Friday) 6 hrs (saturday

Instruction to supervisor:

Please refer to the student report in Table 8.4 before accessing and commenting. Please (√) in the appropriate box.

1. Poor
2. Unsatisfactory
3. Satisfactory
4. Good
5. Excellent

WEEKLY EVALUATION OF SUPERVISOR IN COMPANY/ORGANIZATION

Work performance and student report:

1 2 3 4 5
☐ ☐ ☐ ☐ ☑

Supervisor's signature & date : .....

Name : ZULKIPLI BIN SOLAHUDDIN

Post & stamp : TELPHONE TECHNOLOGY (M) SDN. BHD.
(Company No: 467109-P)
1247, Jalan Sri Putri 3/4,
Taman Putri Kulai,
81000 Kulai, Johor.
Tel: 07-6633322 Fax: 07-6631329

Date : 13/10/2022

Comments:

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8.2 – TABLE OF DAILY/WEEKLY STUDENT ACTIVITY AND ASSESSMENT FORM BY COMPANY/ORGANIZATION SUPERVISOR

SUMMARY OF ACTIVITIES			WORKING WEEK : 3
Date		Work Summary/Daily Activities	Duration Hours
From	Upto		
8/8	13/8	• On the 3rd week, the company train to with the assemble work which is labelling, installing and etc for the water heater pump tester for customer.	8 hrs per day (Monday - Friday) 6 hrs (Saturday)

Instruction to supervisor:

Please refer to the student report in Table 8.4 before accessing and commenting. Please (√) in the appropriate box.

1. Poor
2. Unsatisfactory
3. Satisfactory
4. Good
5. Excellent

WEEKLY EVALUATION OF SUPERVISOR IN COMPANY/ORGANIZATION

Work performance and student report:

1	2	3	4	5
☐	☐	☐	☐	☑

Supervisor's signature & date : .....

Name : .....

Post & stamp : TELPHONE TECHNOLOGY (M) SDN. BHD. (Company No: 467100-P) 1247, Jalan Sri Putri 3/4, Taman Putri Kulai, 81000 Kulai, Johor. Tel: 07-6633322 Fax: 07-6631323

Date : 14/10/2022

Comments:

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8.2 – TABLE OF DAILY/WEEKLY STUDENT ACTIVITY AND ASSESSMENT FORM BY COMPANY/ORGANIZATION SUPERVISOR

SUMMARY OF ACTIVITIES			WORKING WEEK : 4
Date		Work Summary/Daily Activities	Duration Hours
From	Upto		
15/8	20/8	• On the 4th week, the company trained how to do electrical and mechanical work such as soldering wire for electrical work and mechanical work such installing wire etc.	8 hrs per day (Monday - Friday) 6 hrs (Saturday)

Instruction to supervisor:

Please refer to the student report in Table 8.4 before accessing and commenting. Please (√) in the appropriate box.

1. Poor
2. Unsatisfactory
3. Satisfactory
4. Good
5. Excellent

WEEKLY EVALUATION OF SUPERVISOR IN COMPANY/ORGANIZATION

Work performance and student report:

1 2 3 4 5
☐ ☐ ☐ ☐ ☑

Supervisor's signature & date : .....

Name : .....

Post & stamp : TELPHONE TECHNOLOGY (M) SDN. BHD. (Company No: 467109-P) 1247, Jalan Sri Putri 3/4, Taman Putri Kulai, 81000 Kulai, Johor. Tel: 07-6633322 Fax: 07-6631323

Date : 13/10/2022

Comments:

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8.2 – TABLE OF DAILY/WEEKLY STUDENT ACTIVITY AND ASSESSMENT FORM BY COMPANY/ORGANIZATION SUPERVISOR

SUMMARY OF ACTIVITIES			WORKING WEEK : 5
Date		Work Summary/Daily Activities	Duration Hours
From	Upto		
22/8	27/8	• On the ~~fifth week~~ 5th week, went to Eclatec, Tebrau for site work which is the installation of water heater pump heater. Supervisor assigned this task to go to ~~work~~ site work to gain knowledge about site work and environment.	8 hrs per day (monday - Friday) 6 hrs (saturday)

Instruction to supervisor:

Please refer to the student report in Table 8.4 before accessing and commenting. Please (√) in the appropriate box.

1. Poor
2. Unsatisfactory
3. Satisfactory
4. Good
5. Excellent

WEEKLY EVALUATION OF SUPERVISOR IN COMPANY/ORGANIZATION

Work performance and student report:

1 2 3 4 5
☐ ☐ ☐ ☐ ☑

Supervisor's signature & date : .....

Name : MUKIM

Post & stamp : TELPHONE TECHNOLOGY (M) SDN. BHD. (Company No: 487109-P) 1247, Jalan Sri Putri 3/4, Taman Putri Kulai, 81000 Kulai, Johor. Tel: 07-6633922 Fax: 07-6631323

Date : 13/10/2022

Comments:

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8.2 – TABLE OF DAILY/WEEKLY STUDENT ACTIVITY AND ASSESSMENT FORM BY COMPANY/ORGANIZATION SUPERVISOR

SUMMARY OF ACTIVITIES		WORKING WEEK : 6	
Date		Work Summary/Daily Activities	Duration Hours
From	Upto		
29/8	3/9	• On 6th week, learn more on how to soldering the wire to connector and the ~~torrect~~ correct technique to apply solder. crimping wire with pin connector also one of the step after soldering the wire.	8 hrs per day (monday - friday) 6 hrs (saturday)

Instruction to supervisor:

Please refer to the student report in Table 8.4 before accessing and commenting. Please (√) in the appropriate box.

1. Poor
2. Unsatisfactory
3. Satisfactory
4. Good
5. Excellent

WEEKLY EVALUATION OF SUPERVISOR IN COMPANY/ORGANIZATION

Work performance and student report:

1	2	3	4	5
☐	☐	☐	☐	☑

Supervisor's signature & date : .....

Name : .....

Post & stamp : TELPHONE TECHNOLOGY (M) SDN. BHD. (Company No: 467109-P) 1247, Jalan Sri Putri 3/4, Taman Putri Kulai, 81000 Kulai, Johor. Tel: 07-6633322 Fax: 07-6631323

Date : 13/10/2022

Comments:

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8.2 – TABLE OF DAILY/WEEKLY STUDENT ACTIVITY AND ASSESSMENT FORM BY COMPANY/ORGANIZATION SUPERVISOR

SUMMARY OF ACTIVITIES			WORKING WEEK : 7
Date		Work Summary/Daily Activities	Duration Hours
From	Upto		
5/9	10/9	• On the 7th week, proceed and learn more about wire crimping and probe pin and probe receptacle on the electronic components.	8 hrs per day (Monday - Friday) 6 hrs (Saturday)

Instruction to supervisor:

Please refer to the student report in Table 8.4 before accessing and commenting. Please (√) in the appropriate box.

1. Poor
2. Unsatisfactory
3. Satisfactory
4. Good
5. Excellent

WEEKLY EVALUATION OF SUPERVISOR IN COMPANY/ORGANIZATION

Work performance and student report:

1 2 3 4 5
☐ ☐ ☐ ☐ ☑

Supervisor's signature & date : .....

Name : ZULKIFLI

Post & stamp : TELPHONE TECHNOLOGY (M) SDN. BHD.
(Company No: 467109-P)
1247, Jalan Sri Putri 3/4,
Taman Putri Kulai,
81000 Kulai, Johor.
Tel: 07-6633322 Fax: 07-6631323

Date : 13/10/2022

Comments:

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8.2 – TABLE OF DAILY/WEEKLY STUDENT ACTIVITY AND ASSESSMENT FORM BY COMPANY/ORGANIZATION SUPERVISOR

SUMMARY OF ACTIVITIES		WORKING WEEK : 8	
Date		Work Summary/Daily Activities	Duration Hours
From	Upto		
12/9	17/9	• On the 8th week, do the soldering and soldering process till all the ~~teacher~~ techniques and skills ~~is~~ are right.	8 hrs per day (monday - Friday) 6 hrs (saturday)

Instruction to supervisor:

Please refer to the student report in Table 8.4 before accessing and commenting. Please (√) in the appropriate box.

1. Poor
2. Unsatisfactory
3. Satisfactory
4. Good
5. Excellent

WEEKLY EVALUATION OF SUPERVISOR IN COMPANY/ORGANIZATION

Work performance and student report:

1 2 3 4 5

☐ ☐ ☐ ☐ ☑

Supervisor's signature & date : .....

Name : .....

Post & stamp : .....

Date : .....

TELPHONE TECHNOLOGY (M) SDN. BHD.
(Company No: 467100-P)
1247, Jalan Sri Putri 3/4,
Taman Putri Kulai,
81000 Kulai, Johor.
Tel: 07-6633322 Fax: 07-6631323

13/10/2022

Comments:

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8.2 – TABLE OF DAILY/WEEKLY STUDENT ACTIVITY AND ASSESSMENT FORM BY COMPANY/ORGANIZATION SUPERVISOR

SUMMARY OF ACTIVITIES			WORKING WEEK : 9
Date		Work Summary/Daily Activities	Duration Hours
From	Upto		
17/9	24/9	• On the 9th week, do soldering and crimping wire ~~till~~ to polish all the technique's	8 hrs per day (monday - friday) 6 hrs (saturday)

Instruction to supervisor:

Please refer to the student report in Table 8.4 before accessing and commenting. Please (√) in the appropriate box.

1. Poor
2. Unsatisfactory
3. Satisfactory
4. Good
5. Excellent

WEEKLY EVALUATION OF SUPERVISOR IN COMPANY/ORGANIZATION

Work performance and student report:

1 2 3 4 5
☐ ☐ ☐ ☐ ☑

Supervisor's signature & date : .....

Name : .....

Post & stamp : TELPHONE TECHNOLOGY (M) SDN. BHD. (Company No: 467108-P) 1247, Jalan Sri Putri 3/4, Taman Putri Kulai, 81000 Kulai, Johor. Tel: 07-6633322 Fax: 07-6631323

Date : 13/10/2022

Comments:

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8.2 – TABLE OF DAILY/WEEKLY STUDENT ACTIVITY AND ASSESSMENT FORM BY COMPANY/ORGANIZATION SUPERVISOR

SUMMARY OF ACTIVITIES			WORKING WEEK : 10
Date		Work Summary/Daily Activities	Duration Hours
From	Upto		
26/9	1/10	• On the 10th week, do soldering and wire crimping wire to polish all the techniques.	8 hrs per day (Monday - Friday) 40 hrs (Saturday)

Instruction to supervisor:

Please refer to the student report in Table 8.4 before accessing and commenting. Please (√) in the appropriate box.

1. Poor
2. Unsatisfactory
3. Satisfactory
4. Good
5. Excellent

WEEKLY EVALUATION OF SUPERVISOR IN COMPANY/ORGANIZATION

Work performance and student report:

1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☑

Supervisor's signature & date : .....

Name : .....

Post & stamp : TELPHONE TECHNOLOGY (M) SDN. BHD. (Company No: 467109-P) 1247, Jalan Sri Putri 3/4, Taman Putri Kulai, 81000 Kulai, Johor. Tel: 07-6633322 Fax: 07-6631323

Date : 13/10/2022

Comments:

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.....

8.2 – TABLE OF DAILY/WEEKLY STUDENT ACTIVITY AND ASSESSMENT FORM BY COMPANY/ORGANIZATION SUPERVISOR

SUMMARY OF ACTIVITIES		WORKING WEEK : 11	
Date		Work Summary/Daily Activities	Duration Hours
From	Upto		
3/10	8/10	• On the 11th week, learn about the final steps before handle final product to customer.	8 hrs per day (monday - friday) 6 hrs (saturday)

Instruction to supervisor:

Please refer to the student report in Table 8.4 before accessing and commenting. Please (√) in the appropriate box.

1. Poor
2. Unsatisfactory
3. Satisfactory
4. Good
5. Excellent

WEEKLY EVALUATION OF SUPERVISOR IN COMPANY/ORGANIZATION

Work performance and student report:

1	2	3	4	5
☐	☐	☐	☐	☑

Supervisor's signature & date : .....

Name : MUKRU

Post & stamp : TELPHONE TECHNOLOGY (M) SDN. BHD. (Company No: 487109-P) 1247, Jalan Sri Putri 3/4, Taman Putri Kulai, 81000 Kulai, Johor. Tel: 07-6533322 Fax: 07-6571323

Date : 13/10/2022

Comments:

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.....

8.2 – TABLE OF DAILY/WEEKLY STUDENT ACTIVITY AND ASSESSMENT FORM BY COMPANY/ORGANIZATION SUPERVISOR

SUMMARY OF ACTIVITIES		WORKING WEEK : 12	
Date		Work Summary/Daily Activities	Duration Hours
From	Upto		
10/10	14/10	• On the 12th week, learn ~~about~~ and prepare the network wire as requested by the customer.	8 hrs per day (monday - friday) 6 hrs (saturday)

Instruction to supervisor:

Please refer to the student report in Table 8.4 before accessing and commenting. Please (√) in the appropriate box.

1. Poor
2. Unsatisfactory
3. Satisfactory
4. Good
5. Excellent

WEEKLY EVALUATION OF SUPERVISOR IN COMPANY/ORGANIZATION

Work performance and student report:

1	2	3	4	5
☐	☐	☐	☐	☑

Supervisor's signature & date : .....

Name : .....

Post & stamp : TELPHONE TECHNOLOGY (M) SDN. BHD. (Company No: 487100-P) 1247, Jalan Sri Putri 3/4, Taman Putri Kulai, 81000 Kulai, Johor. Tel: 07-6633322 Fax: 07-6631323

Date : 13/10/2022

Comments:

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8.3 – ASSESSMENT FORM OF OVERALL STUDENT ACTIVITY BY FACULTY SUPERVISOR

FACULTY SUPERVISOR ASSESSMENT

Instruction to supervisor:

Please read the log book and interview the student before assessing and commenting. Please (√) in the appropriate box.

1. Poor
2. Unsatisfactory
3. Satisfactory
4. Good
5. Excellent

Student report:

1	2	3	4	5
☐	☐	☐	☐	☐

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Supervisor's signature : ……...

Name : ……...

Date : ……...

8.4 – TABLE OF DETAILED STUDENT ACTIVITY

DETAILED REPORT	
Work Week : 1	Date : ~~31/7/2022~~ 31/7/2022

Training Objectives (Activities Work at Department/Section :

mechanical works such as using all the mechanical equipments in the workshop.

. To get familiar with all the mechanical equipments.

. To know ~~not~~ what is the equipments or components that widely used on the company.

- continuity test

- continuity test is the presence of a complete path for current flow and the test is performed by using multimeter. A continuity test is a ~~pro~~ check process to see if circuit is open or ~~closed~~ closed. ~~In the inter~~ During internship training, a continuity test is performed ~~by using multimeter~~ to Yokowo clip that clipped to the flat ~~to get~~ white wire to check if there are presence of short or not. A flat white wire with 6 terminal is used in this continuity test. All of the 6 terminal is check respectively with the middle 6 terminal on the Yokowo clip to check the presence of current path.

- Tapping process

- Tapping process is the process of cutting a thread inside a hole so that a cap screw or bolt can be threaded into the hole. It is also used to make thread on nuts. In this tapping process, hand drill is used with suitable and proper tapping lead refer to the screw's types and lead dimension. From the observation during intern, the tapping process usually done on the material that already had holes which is the material need to be drilled to create holes before the process of tapping started.

DETAILED REPORT

- Taping PCB
  - taping PCB process is the process of ~~tap~~ the PCB as taped with the high resistant tape (blue colored tape) to trace the location of the probes ~~on the touched~~ this process is conduct to check whether the probes is landed on right location on the PCB or missed landed in order to make sure any failure in the component can be avoided. This process also is to make sure any ~~unneeded probes can be taken out~~ unnecessary probes can be taken out rather than too leave it be without any functionality.

- pressing cylinder hollow strike metal.
  - pressing cylinder is the process of pressing ~~cylinder~~ strike hollow metal ~~or~~ in the hole on the pallet that will act as ~~locking~~ rock hole so that the locking system ~~can~~ locked can be operate ~~during~~ then undergone testing process. Oil is used for in the pressing ~~hollow~~ strike hollow cylinder metal process in order to make sure that ~~hollow cylinder~~ strike hollow cylinder metal ~~perfectly~~ fit in the hole by reducing its friction between the strike hollow cylinder metal with the pallet. There are some error or damage that encountered in this process which is the pallet slightly deform in the ~~pr~~ pressed area due to the air is trapped in the hole ~~during~~ after the ~~hollow cylinder~~ strike hollow cylinder metal is pressed in.

DETAILED REPORT

- ~~Ind~~ Identifying 8mm tube

  - Black silicone ~~rubber~~ tube is used in the mechanical industry for vary of purpose. The application of silicone tubes can depend on the sizes of the tubes. This tubes are ~~widly~~ widely used as electrical sleeving due to its flexibility and thin walls behaviour. It is used to ~~cary~~ carry liquids, air and powders which are popular with the pharmaceutical and food industries. In the workshop, ~~this~~ ~~tube~~ 8mm ~~of~~ black silicone tube is used to travel the air in the flow rate measured system. The ~~black~~ 8mm black silicone tube is connected with the air regulator while transparent silicone tube is used through out the ~~system~~ flow rate system.

- Screwing the pin PCB pin lock.

  - PCB pin locks is are installed on the metal plate to secure the PCB to keep in place. Philips screw is used in ~~this~~ ~~the pin lock~~ PCB pin lock.

- Learning ~~water regulator~~ about water regulator

  - A water pressure regulator is a plumbing value that reduce the water pressure coming from the main water line into the house. The function of this value is to brings down the the pressure to a safe level before the water reaches any plumbing inside the house. This regulator has been installed on the water heater pump testing machine in the ~~and~~ work intern company. This water regulator is reducing the water pressure before the testing process is ~~conducted~~ conduct.

DETAILED REPORT

- learn about the water heater pump machine
  - water heater pump machine is the machine that will test the water heater pump whether the output water temperature is equal with the ~~#~~ initial set up temperature. This kind of ~~testing~~ testing machine is constructed and built in the workshop at this intern company which is requested by customer. there are several types of water heater pump involve ~~in this~~ that needs to be ~~test~~ tested by this water heater pump machine obey the customer's request. This ~~machine~~ testing machine is built from scratch ~~until~~ it become ~~becoming~~ a water heater pump machine. Air hydraulic system is being applied in this testing machine which is to move the ~~pallet~~ mechanism that purposely grip or hold the pallet ~~of the water~~ during the water heater pump testing process. The framing structure of the machine is consist a alloy profile so that when it gets contact with water, the ~~at~~ aluminium oxides film will form quickly on the surface which protect the profile from rusting. Alloy is also less ductile compared to still which makes it stronger and harder.

DETAILED REPORT

- learn about air regulator
  - Air pressure regulators are designed to provide maximum flow capacity and maintain the outlet pressure at a set level. It consist of control spring that act on a diaphragm to ~~regulatate~~ regulate the air pressure. this regulator also provides a constant outlet of pressure, separately from the inlet pressure or flow. this air pressure regulator is used in the flow rate measured system. the air needs to be regulates before it the is flow into the flow rate meter for measuring process.

- crimping pin connector process.
  - crimping process is joining 2 pieces of metal or other ductile material (usually a wire and a metal plate) by deforming one or both of them to hold the other. It is the best way or other alternative of attaching wire without ~~soldered~~ soldering it. the pin connector is used and ~~bared~~ bare or using crimp to the wire before connect of the to ~~boring~~

IDC connector. the crimped wire is inserted in the IDC connector till 'click' sound heard and in order to make the inserting process easier, tweezer is used. other than make the process easier, it also for safety purpose which broken material can be avoid. because the material might be damage if ~~incorrect~~ insert process is conduct in bare hand. the pin connector is insert according to the customer's requirement that stated in the check sheet.

DETAILED REPORT

- learn about solenoid valve
  - A solenoid valve is an electrically controlled valve. This solenoid valve is an electric coil with a movable ferromagnetic core (plunger) in its center. ~~Eg~~ Solenoid valve is used in the water heater pump testing machine which is 2 ways solenoid valves. This solenoid valve ~~is~~ with operates according the computer program.

- Restock the screws.
  - All the screws needs to be identify based on its type and dimension for example cap screw, countersunk screw and button head screw. ~~The screws~~ All the screws are in the screws rack organizer respectively to its type, size and dimension. All the screws need to be restock for further use. After restocking process, the balance of the screw left in the stock need to be estimate to be written on the screw stock table list. 200 pieces of screw and below is consider less and ~~need~~ need to be written 'less' in the screw stock table list. If there is no ~~left~~ stock left of screw for a certain type of screw, 'NIL' need to be written in the screw ~~table~~ stock table list which stand for 'Not Available' for that screw type, so that it can be order for later on.

DETAILED REPORT

- learn how to use tube printer
  - PVC tube printer is ~~the~~ a machine that able to print out ~~desired~~ desire or specific information on a PVC or silicone tube. The silicone / rubber tube is ~~used~~ used to indicate or labelling the wire to avoid confusion during troubleshooting process or assembling process. It is ~~remov~~ moveable and very convenience to use anywhere.

- Inserting O ring in the nozzle
  - Nozzle is a cylindrical or round spout at the end of a pipe, hose or tube used to control a jet, gas or liquid. Nozzle is used in the water heater pump testing machine which is to ~~supply~~ channel the water to the water heater pump inlet. In order to prevent any leakage happen during water heater pump testing process, O ring inserted in the nozzle. O ring can be called as packing or a torc gasket that will act as mechanical gasket that purpose to block a path which may allow a liquid or gas to escape so that the result of the test will become non accurate.

- Aligned the pallet block
  - The pallet block need to be align to make sure the water heater pump fit loosely on the pallet before run for testing process in the water heater pump testing machine. It is also to avoid any mistakes during place the water heat pump on the pallet that will lead to broken waterpad.

DETAILED REPORT

- learn about mini lathe machine.
  - A lathe as a tool that rotates the workpiece on its axis to ~~various~~ perform various operation such as cutting, sanding, knurling, drilling or deformation, facing, turning with tools that are applied to the workpiece to create an object with ~~symetry~~ symmetry about an axis of rotation. In top ~~block modification~~ of the ~~block~~ pallet block modification process, ~~top of the modification~~

  the lathe machine is used to shape the top of the pallet block which is removing the unwanted part 1mm. The outer part of the top pallet block can be set ~~as~~ it @ zero as reference point before ~~start~~ reduce it 1mm from the initial diameter. ~~The block can be~~ the cutting process can be performed ~~little~~ by little ~~so that~~ until it achieve the desired length. This ~~steps~~ kind of ~~skills~~ technique is performed to get smooth surface.

- Insert and take out probe's receptacle
  - Inserting probes receptacle use hammer probe from the top of the components. The take out process is also use hammer probe and need to be knock it from the bottom of the components.

DETAILED REPORT

- learn about using ~~handdrill~~ hand drill
  - ~~handdrill~~ hand drill is used for many purpose such as tapping process, drilling process and etc. Hand drill also can be use to screwing ~~for~~ for purpose with correct setting to avoid any damage happen at the screw's head or the head drill ~~bit~~ bit.

8.4 – TABLE OF DETAILED STUDENT ACTIVITY

DETAILED REPORT	
Work Week : 2	Date : 7/8/2022

Training Objectives (Activities Work at Department/Section :

- Mechanical and electrical work such as digital caliper, PTFE tape.
- To ~~get~~ gain ~~experience~~ experience of using all the tools and equipment.
- To learn ~~about~~ how to get accurate measurement in design ~~process~~ process

- learn how to use PTFE tape
- PTFE is stand for polytetrafluoroethylene which is a synthetic of fluoropolymer of tetrafluoroethylene that has such a numerous application. PTFE has one that lowest coefficients of frictions to any solid. PTFE also used for non-stick coating for pans and ot other kitchen ware. In the ~~company~~ this company, PTFE tape has been use for taping the L connector that use in the water heater pump testing machine. the L connector need to be tape approximately ~~2~~ 3 ~~to~~ 2 to 3 layer to avoid any leakage of gas or liquid when in use. After the taping of L connector are done, the L connector can be assemble or attach to the pump valve by using correct size of spanar. ~~for~~ In this case, by using adjustable switch spanar give advantage and makes the attaching process easier

DETAILED REPORT

- learn about cutting machine.
  - In the this company, profile alloy is mostly used for in frame structure of any lathe machines. In order ~~to~~ to construct the frame structure, the raw alloy profile need to be cut by certain dimension which all the ~~profile~~ alloy profile will be cut by using metal cutting machine. This cutting machine needs to be handle carefully to avoid any serious injury or accident. The profile can be any type such as ~~alloy~~ alloy, aluminium and etc, ~~the~~ the cutting bit ~~need~~ need to be oil or lubricate first before proceed to cutting process in order to get smooth surface and ~~edges~~ smooth cutting edges. It also to avoid any ~~damages~~ damage to the cutting machine bit which is blunt bit. In the making of water heater pump testing machine alloy profiles are used for the body structure of the testing ~~machine~~ machine

- learn about CNC machine
  - CNC ~~machine~~ milling ~~machines~~ machines are a machine that will operate cutting tools that are programmed and manage by computer numerical control (CNC) system that will accurately remove materials from a workpiece. The output of the machining process is specific part or product that is created using design software such as CAD software. The company ~~sent~~ sent some electrical part or raw material to engineering department for CNC machining process.

DETAILED REPORT

- taking dimension
  - taking dimension of the top part of tester machine named AID Blackart tester to change and modified the old probe to another size of probe. After the new dimension has been taken, the new alloy probe need to be cut into several ~~pro~~ pieces follow by the taken dimension. ~~and all the cut~~ changing process can be ~~done to~~ proceed ~~not~~ after the cutting process are done.

- modification of vacuum leak tester
  - The leak is distinguish connection by connection with the flow rate meter shown approximately ~~zero~~ 0 L/min.

    The leak at tube connection is tested by using DPI meter. The vacuum leak tester need to be double check before sent to the customer to avoid any further mistakes such as inaccurate readings.

- taking detail picture of vacuum leak tester.
  - detail picture of vacuum leak tester ~~has~~ are being taken at every angle for company used in the future project by uploading all the images in the company's laptop.

8.4 – TABLE OF DETAILED STUDENT ACTIVITY

DETAILED REPORT	
Work Week : 3	Date : 14/8/2022

Training Objectives (Activities Work at Department/Section :

- To avoid any confusion during maintenance work
- To get familiar with the electronic components.

- Label the reed switch
  - Reed ~~switch~~ switch is an electrochemical switch that will operated by an applied magnetic field. Reed switch has been involve and used in the water heater pump tester. Labelling process has been done before installing the reed switches in the tester. The labelling process is used the tube that print by tube printer so that it will make the maintenance work easier and confusion can be avoid.

- ~~Bar~~ Servicing Banana connector
  - ~~Bana~~ A Banana connector which is consist of Banana plug for male and banana socket for the female. Banana plug is purposely used for joining wires to the equipments. Before plug in banana ~~cable~~ connector to any electrical equipment, it ~~has~~ need to be prepared first. ~~not~~ the banana connector need to be screw prepare with its screws to locate banana connector because it did not come in ~~piece~~ pieces.

- cut and installed the wire case.

  - In the step of getting ~~done~~ done, of customers order, the organizing process is compulsory to make sure the product in neat and tidy condition. The purpose of this process is for the ~~~~ making after work before ~~easy~~ easy and to avoid any confusion. Before handle the final product to customer, all the wires that has been wired in the product need to be keep in place and stayed. By cutting the correct dimension of wire case and install it, the ~~objectives~~ objective of this activity can be achieve. All the wires were put in the wire case that install on the alloy profile.

- Installing bracket at profile

  - The alloy bracket has been installed at the alloy profile frame structure for water heater pump tester. M8 bolts, nuts and washer ~~~~ are used for attaching ~~process~~ the brackets and alloy profile. Before installing the brackets, M8 bolts, nuts and washers need to be slotted in on the alloy profile's slots so that tighten process can be done after that. In mechanical engineering, a bracket is used for fixing one part to another part that is usually larger part.

- Organise tube
  - This process is actually the same process step with the previous step which is installing the wire case on the water heater pump tester. This step can be classified as organisation process which is to make sure the final product in neat, tidy and clean form before handle it to customer. In the water heater pump tester, that are several type of tubing that used such as air tube and fluid tube. In order to achieve tidy and neat looks ~~water tu~~, all the ~~tubing~~ tubes need to be organise by using cable tie and cable tie base sticker.

- Inserting spiral tube
  - This is also can be classified as organisation process which is to make the final product to looks neat and tidy. All the ~~wire~~ red and black wires need to be spiral by sup spiral cord to assure that the tester in nice condition. Before spiral process, the wires need to be cable tie to make sure the wires keep in place. After then to assure the wires look ~~in~~ nicely organise. It is also ~~to make sure wire~~ in purpose to protect the wire from snappings that will make the water heater pump tester hard to operate.

8.4 – TABLE OF DETAILED STUDENT ACTIVITY

DETAILED REPORT	
Work Week : 4	Date : 21/8/2022

Training Objectives (Activities Work at Department/Section :

- To get familiar and know how to do soldering activity.
- To gain work experience on mechanical work such as installing certain electronic part.

- Inserting wire case cover.
  - In the electrical engineering, wire case is a case which all the wire are put in the wire case to assure that the product looks neat, tidy and organise so that on future use, the wire are not ~~entang~~ interrupt the product performance and makes the maintainence activity become ease. The wire case cover has been installed ~~on~~ at the water heater pump tester to make sure all the wires are organised and keep in place. The wire case cover need to be measure ~~same~~ same as wire case before cut it to make sure the cover is fit with the wire case. Any wrong dimension of ~~case~~ wire case cover are cut will be ~~the~~ make the wire case cover cannot fit ~~the~~ into the wire case.

- learn how to use stricker printer

  - the labelling process is important on the electrical engineering to annotate or give information for the customer if there ~~ought~~ any failure in future use either ~~fabric~~ wire labelling or component labelling. The labelling process are crucial which is any wrong label will lead to malfunction of the product. The company has trained how to use the stricker printer for labelling process. There are several width of stricker that involved in this labelling process such as 6mm, 9mm, 16 mm, 18mm and there are several ~~color~~ colour of stricker are provided in this company. In this ~~prod~~ labelling process, 9mm width of strickers in white colour has been used respectively to ~~the~~ ~~owner~~ customer's request.

- soldering wire

  - soldering wire activity has been trained in this company. There are several ~~component~~ electrical component need to be ~~attache~~ attach by using soldering method. The wire has been soldered by using solder and solder lead and there is specific technique of solder need to be follow to assure the high quality of solder that will affect the ~~poor~~ performance of the product.

DETAILED REPORT

1 In this company, all the soldering work had been performed manually by the workers. There is ~~not~~ no any an solder machine that runs automatically in the this company.

- Do plastic wrapping

- Every small final product need to be wrapped with plastic wrapper before handle to customer in order to protect the product ~~for~~ from any scratch and dirt.

- prepare M6 cap screw and spring washer.

- Find and prepare 100 pieces of M6 spring washer and 50 ~~pieces~~ pieces of cap screw according to the ~~the~~ list that assigned by the supervisor for site work use. All the ~~the~~ items need to be put in the ~~zip lock~~ plastic bag Zip lock in order to make sure all the items is not missed.

8.4 – TABLE OF DETAILED STUDENT ACTIVITY

DETAILED REPORT	
Work Week : 5	Date : 28 / 8 / 2022

Training Objectives (Activities Work at Department/Section :

- To be exposed to site work environment.
- To assist work call company worker do the mechanical work at ~~Escatec~~ site.

- went to Escatec, rebrau for site work
  - Supervisor has assigned to support the other worker for site work ~~of~~ that involved with mechanical job scope. ~~went~~ stay went to Escatec, rebrau for few days for water heater pump tester installation. There are ~~few~~ issues found during the installation process which are the busy customer which is drastically change plan or change the orginal plan by defying all the orginal plan in term of wiring and design. In order to obey all the customer's requirements, the wire circuit need to be rewire multiple times to get all things done. Same goes with the ~~other~~ mechanical part, the tubes, valves, stopper and etc need to be change or send for modification multiple times before all the things done.

- organize new probes in the ~~probes~~ probe's box.
  - All the new probes that ordered by the supervisor all already arrive and need to be sort out or classified in the probe box. The probes has been classify or sorting out respectively to its name, type and model in order to make everything is easy to find for future use.

8.4 – TABLE OF DETAILED STUDENT ACTIVITY

DETAILED REPORT
Work Week : 6 Date : 4/9/2022
Training Objectives (Activities Work at Department/Section : • To know how to solder the wire with correct techniques. • To know how to crimp the wire with pin connector.

- to the wire crimping
  - pin connector has been crimped by the ~~crimp~~ a crimpler in order to connect with 2 ways and 4 ways black connector. 10 sets of product named "Autoline Bottom Block" has been crimped with ~~wire~~ pin connector crimpler. 2 ways and 4 ways of black connector has been used in this product that requested by the customer. All the wires need to be crimple first before insert it on the 2 ways and 4 ways black connector: ~~after wire~~

- soldering wire to connector.
  - In order to attach the wire with the components, soldering method is used in order to allow ~~electric~~ electricity flow from the wire ~~to the co~~ through the joint section to the components.

- Assemble the mechanical structure

  - The mechanical frame structure has been assemble before sent for site work which is installation process. There are some modification regarding the design of ~~frame str~~ that frame structure. By following the latest design and dimension that has been drawn in the design software by the supervisor, the frame structure is undergone the re-assemble and assemble process which are several components are assemble into one whole structure.

- Installed ~~switched~~ switch buttons

  - Switch buttons are installed on the plate and multi axis CNC controller and digital counter meter. This product named "Tempo tester" that ordered ~~from etc~~ by the customer. multi-axis computer numerical control (CNC) machining which is employs advanced machining equipment and tooling that accomodates motion in four or more direction to facilitate the manufacture of precision parts with complex geometries and digital counter meter is mainly used for measuring the ac power of various physical instruments and this meter can display the measured ac voltage, dc current and output power.

8.4 – TABLE OF DETAILED STUDENT ACTIVITY

DETAILED REPORT	
Work Week : 7	Date : 11/7/2022

Training Objectives (Activities Work at Department/Section :

- To learn more about wire crimping
- To know how to insert and take out the probe pin and receptacle.

- Crimping wire
  - Do the wire crimping by using pin connector for 10 sets of ~~and~~ the product named " side block achoine PMI voyager ". After the wire crimpled, the wire inserted in the 3 ways black connector and 4 ways connector as requested by customer. These 10 sets of wire consume 2-3 days to complete before ~~Longdke~~ it to customer. deliver.

- Knock the probe receptacle
  - knock the pin probe receptacle in the block as requested by customer by using probe hammer and probe & inserter. The receptacle need to be knock follow certain space and dimension in order to avoid any malfunction during operation day. There are specific depth dimension of the probe receptacle need to be knock in the block. The probe receptacle is properly use as pin probe housing in the electronic component.

- Inserting pin probe

- ~~The~~ After the ~~knocking~~ receptacle, knocking process are done,

inserting pin probe ~~can be pro~~ can be proceed process

by inserting the pin probes into the all knocked probe receptacle follow correct type, kind and size dimension. Ket assigned by supervisor in the company.

- Wrapping probe -sing wire

- . wire wrapping has been used in the previous produced as requested by customer. After inserting probe process all ~~to~~ done, wire wrapping need to be ~~wrapp~~ wrap at the probe's body. All the pin probes need to be wrap by the wrapping wire. 28 AVG of wrapping wire has been used for wrapping probes purpose~~s~~ in this ~~pro~~ model.

8.4 – TABLE OF DETAILED STUDENT ACTIVITY

DETAILED REPORT	
Work Week : 8	Date : 18/7/2022

Training Objectives (Activities Work at Department/Section :

- To get used and makes all the soldering skills and techniques are right
- To get expert in the wire crimping process.

- Soldering wire
  - soldering wires of customer product named "Autoline Bottom Block" for 10 sets of block that ~~takes~~ tooks several days to complete it. ~~to~~ Learn to reduce the mistakes during soldering process day by day.

- Do wire crimping
  - Do the soldering are done, next process can be proceed which is wire crimping process for 10 sets of product named "Autoline Bottom Block" using crimpler. After all the pin connector has been crimpled to all wires, it can be inserted in the 2 ways and 4 ways black connector which is requested by the customer.

- Inserting shrink tube.
  - when the crimping process are done, the next process can be perform which is inserting shrink tube. The shrink tube need to be insert to every wire in order to protect the solder part from ~~snapping~~ snap during operation. It is also to protect the wire from being exposed to water. The shrink tube need to be blow with heat blower to shrink the tube and the shrink tube need to assure that the tube is fully shrink. to avoid any ~~mal~~ electronic malfunction ahead.
- Insert label the through wire
  - After the shrinking tube is done, the label tube need to be insert through wire follow all the customer's requirements. This labelling is crucial which is any mistakes can lead to wrong readings and results during operation day. It is also purposely to avoid any confusion during maintenance activity in future.

8.4 – TABLE OF DETAILED STUDENT ACTIVITY

DETAILED REPORT	
Work Week : 9	Date : 25/7/2022

Training Objectives (Activities Work at Department/Section :

. To polish the skills of soldering wire

. To polish the skills of wire crimping.

- soldering wires of customer's product named " Autobrake Bottom Block " for 10 sets of block that tooks several days to complete it. Learn to reduce the mistakes during soldering process day by day by improving the skills.

- Do wire crimping

- After soldering process are done, next process can be proceed which is wire crimping process for 10 sets of product named " Autobrake Bottom Block " using crimpler. After all the pin connectors has been crimped to all wires, it can be inserted on the 2 ways and 4 ways black connector which is requested by the customer.

8.4 – TABLE OF DETAILED STUDENT ACTIVITY

DETAILED REPORT
Work Week : 10 Date : 21/01/2022
Training Objectives (Activities Work at Department/Section : • To polish the skills of soldering • To polish the skills of wire crimping.
• Do the wire crimping - Do the wire crimping for 11 sets of product named " Top Block manual line ". Every block got 2 sections which are con 1 and con 2. • crimping wire - Do the wire crimping for several sets of wire that requested by customer. The previous noted that use wrapping wire is made the result unstable. It makes customer want to change the new wrapping to 24 AWG stranded wire to achieve stable reading.

8.4 – TABLE OF DETAILED STUDENT ACTIVITY

DETAILED REPORT	
Work Week : 11	Date : 9/10/2022

Training Objectives (Activities Work at Department/Section :

- To learn how to packing final product
- To know the final step ~~before~~ process before packing.

- create a hole slot
  - create a hole slot for the 20 sets of bottom block manual line on the styrofoam in order to pack and will be handle it to customer. It's for safety purpose so that it won't scattered during delivery time.

- check the wire connection
  - 20 sets of bottom block manual line that has been wire soldered with 2 two strings of wire for each block. Before packing process, all the ~~connection in order to~~ wires need to be check the connection in order to avoid any product malfunction.

8.4 – TABLE OF DETAILED STUDENT ACTIVITY

DETAILED REPORT

Work Week : 12 Date : 14/10/2022

Training Objectives (Activities Work at Department/Section :

- To learn how to prepare ~~connection~~ network wire.

- prepare network wire
  - prepare network wire as requested by customer like 10 sets of 0.5m yellow color, 7 feet yellow color and 10 sets of 7 feet white color. The first step of preparing this wire is wire need to be cut into 10 sets of wire for every customer's request. wire needed to be cut the outer layer so that the core of wire exposed. ~~Thos~~ there are few colors in the wire which are :
    1. white with orange stripes
    2. orange
    3. white with green stripes
    4. Blue
    5. white with blue stripes
    6. green
    7. white with brown stripes
    8. Brown

the color need to be slotted on the network connector follow the correct order as above.