

NARRATIVE REPORT

DECEMBER
2024

Bachelor of
Science in
Marine
Engineering
**COMMUNITY
SERVICE**



Zamboanga State College of Marine Sciences & Technology (ZSCMST)



PROGRAM PERFORMANCE PROFILE



1. Program

- BACHELOR OF SCIENCE IN MARINE ENGINEERING (BSMar.E)

1. Institution

ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES AND TECHNOLOGY

Location: FORT PILAR, ZAMBOANGACITY

Campus where the Program is Offered: CAMPUS A CME

DEAN:

CAPT. MARNETTE M. APIT, MATMT

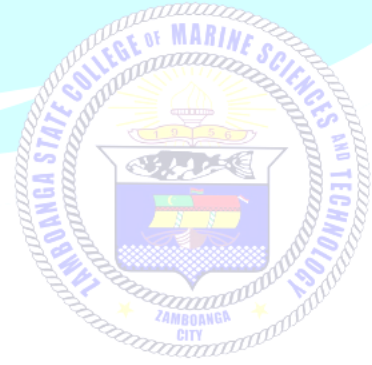
PROGRAM ADVISERS:

C/E CHRISTALYN DR. CHIONG, Ph.D.

OIC-PRESIDENT:

RODERICK D. TRIO, MAEd

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8. Awards of Distinction and Achievement and Grants of This
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MARINE ENGINEERING PROGRAM- LEVEL IV ACCREDITATION



NARRATIVE PROFILE ON EXTENSION

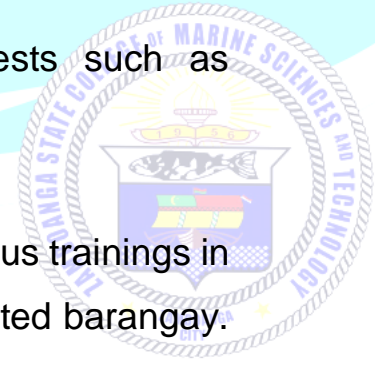
Rationale:

Community Extension Services is an essential function of higher education institutions that derives its plans and programs for the delivery of community services from instruction and research. Conducting community extension service is about relationships in building communities through teaching. The programs and activities are geared toward helping people by empowering themselves through sustainable programs and enabling the programs to reach and “touch the lives “of communities and the environment through services that transfer knowledge and technologies to create an impact on holistic and sustainable development programs and people empowerment.

The ZSCMST had implemented the “Adopt-a-Barangay” Program years ago and Barangay Mampang was the sole adoptive barangay of the entire college till the present.

The College of Maritime Education (CME) is committed to providing timely and relevant community extension services that meet the needs of the community. The College thru its different programs is mandated to conduct extension services to its various clientele to help in the government's thrust for poverty alleviation in the countryside. Among the main program of the extension department is the Adopt-A-Barangay where a community is selected and adapted to become the center of its extension and livelihood training

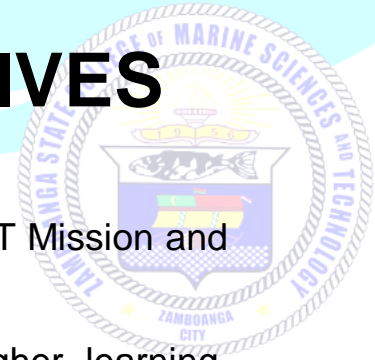
activities. Other extension programs were based on requests such as consultancy, outreach, or technology dissemination.



The College of Maritime Education (CME) conducted various trainings in Barangay Mampang since the time it became the College adopted barangay. After the termination of the first agreement with the barangay, a new Memorandum of Agreement was signed last 2021 making Mampang the Institutional Adopted Barangay of Zamboanga State College of Marine Sciences and Technology (ZSCMST). For these reasons, other colleges and programs of ZSCMST may also render their extension services with the barangay while CME will continue its commitment to the barangay in extending developed technologies for livelihood training and other technical assistance requested.

Along this line, the College of Maritime Education through its different programs will conduct CME-Community Extension Projects for C.Y. 2023 on the Skills training on shielded Metal Arc-Welding (SMAW) and Building wiring and Maintenance for Common Competencies. The College programs will draw plans and projects within their line of expertise and implement them within the target implementation period. Projects previously conducted shall still continue to form part of the extension program for monitoring and evaluation to determine its impact on the community.

WELL-DEFINED OBJECTIVES



Encompassed within the overarching framework of the ZSCMST Mission and Vision:

ZSCMST Vision: A world-class institution for higher learning, research, development, and innovation in fisheries, marine sciences, maritime education, and technology by 2024.

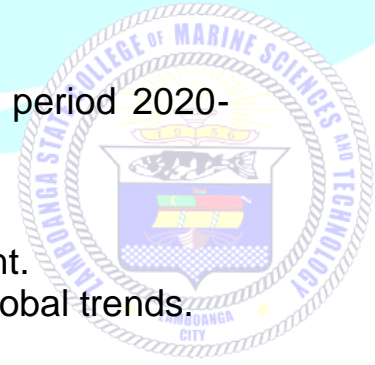
ZSCMST Mission: Provide quality education and relevant research and extension to produce globally competitive human capital for fisheries and other marine-based industries.

The College of Maritime Education proudly aligns itself with the following mission and vision statements:

CME Vision: The Zonal Maritime Resource Nucleus for the Global Community.

CME Mission: The College of Maritime Education conceptualizes its primary role as the producer of competently trained and highly professionalized maritime manpower. We are imbued with the responsibility of upholding utmost basic training (BT), sufficient to comply with the requirements of STCW as amended, and such other international laws and conventions. Our mission is to prepare individuals to pursue a professional career or advanced studies in any maritime field of specialization.

Reference: Quality Standard System (QSS) Policy and Procedure Manual page 1-2.



ZSCMST has strategically outlined the following goals for the period 2020-2024:

STRATEGIC GOALS 2020-2024

1. Produce professional human capital for gainful employment.
2. Provide quality research in line with national thrusts and global trends.
- 3. Make extension services accessible to all.**
4. To become a more financially self-sufficient ZSCMST.
5. Streamline Processes to Improve Effectiveness
6. Develop efficient, proactive, transparent, and accountable college management system and governance.
7. Intensive network/system and digital-based physical plant, facilities, and equipment in support of instruction, research, extension & production 4.0.



In tandem with the aspirations of the ZSCMST strategic goals for the period 2020-2024, the College of Maritime Education synergized its efforts with the following strategic goals for the same period:

CME Strategic Goals 2020-2024

1. Elevate maritime cadet competence for a world-class Filipino maritime workforce.
2. Foster maritime research and innovation
- 3. Expand outreach and extension services to disseminate maritime knowledge to communities and industries influenced by maritime activities.**
4. Optimize financial sustainability for Maritime Education
5. Enhance operational efficiency and educational processes to ensure effective delivery of maritime education aligned with IMO and STCW requirements.
6. Implement governance structures that facilitate communication and decision-making in adherence to IMO and STCW standards.
7. Modernize maritime infrastructure for Education 4.0

CME STRATEGIC GOAL #3 Expand outreach and extension services to disseminate maritime knowledge to communities and industries influenced by maritime activities.



Objective 03: Strengthen Outreach and Extension Services

OBJECTIVES

The Extension and Community Outreach Service endeavors to:

1. Develop and transfer appropriate technologies to target beneficiaries to help them become globally competitive;
2. Encourage the faculty and students to participate in social action and in the community extension services of their respective colleges.
3. Contribute to an improved quality of human life in the depressed communities / barangays within the primary service area.
4. Conducts needs assessment to communities identified as depressed communities / Barangays within the primary service area.
5. Identify programs to meet community development needs to enable the community improve their quality of life.
6. Initiate systematic management of community resources through the provision of a research-based programs and projects.
7. Extend responsive planning, coordinating and implementing priority plans and programs to strengthen people social, economic and environmental well-being.
8. Formulate strategies to upgrade the quality of service rendered by coordinators, educators, trainers, entrepreneurs, and students on the different areas of interest, which promotes the components of Extension and Training as an organization.
9. Deliberate and finalize program and project proposals for inclusion and implementation in the strategic action plan.
10. Ensure that programs / projects are well documented, evaluated and monitored for accreditation.
11. Make sure that all activities and / or training programs in the communities / barangays must not be less than eight (8) hours in duration to be credited as extension program.

ADEQUATE AND RELEVANT PROJECTS/ACTIVITIES TO ACHIEVE OBJECTIVES



College of Maritime Education “MARINO Techs”

(Mariners Advancing Regional Industries through Novel Technologies)

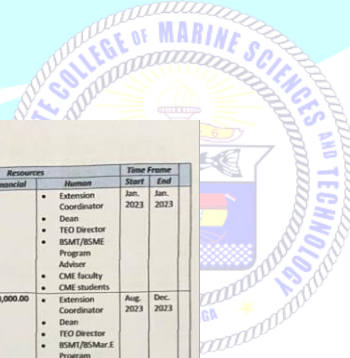
Extension Program Welding and Wiring Training

The College of Maritime Education proudly launched its first project under the MARINO Techs (Mariners Advancing Regional Industries through Novel Technologies) Extension Program: The Welding and Wiring Training. This initiative aims to provide essential skills and practical training to the residents of Barangay Mampang, the adopted community of Zamboanga State College of Marine Sciences and Technology (ZSCMST).

The program equips participants with the knowledge and expertise needed for safe and efficient welding and wiring operations. These skills empower individuals to pursue livelihood opportunities, generate income, and enhance their quality of life. Additionally, the training serves as a foundation for participants to qualify for TESDA National Certificates (NC) Levels 1 and 2, which are vital for securing stable job opportunities in various industries.

This initiative highlights ZSCMST's commitment to community development and social responsibility by bridging education with practical applications. By fostering self-reliance and employability, the program contributes to economic growth and helps create a skilled workforce within Barangay Mampang. With the support of TESDA and local stakeholders, this project is a stepping stone toward sustainable regional development.

MARINO Tech 3 Year Plan (2023-2026)



Republic of the Philippines
ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES AND TECHNOLOGY
COLLEGE OF MARITIME EDUCATION
 Fort Pilar, Zamboanga City
THREE YEARS EXTENSION PLAN
2023 - 2026

CME EXTENSION PROGRAMS/PROJECTS S.Y. 2023-2024

The Extension Program of the College of Maritime Education (CME) to its adopted barangay. The College thru its different programs is mandated to conduct extension services to its various clientele to help in the government's thrust for poverty alleviation in the countryside. Among the main program of the extension department is the Adapt-A-Barangay where a community is selected and adapted to become the center of its extension and livelihood training activities. Other extension programs were based on requests such as consultancy, outreach, or technology dissemination.

The College of Maritime Education conducted various trainings in barangay Mampang since the time it became the College adopted barangay. After the termination of the first agreement with the barangay, a new Memorandum of Agreement (MOA) was signed last 2022 making Mampang the Institutional Adopted Barangay of Zamboanga State College of Marine Sciences and Technology (ZSCMST). For this reason, other colleges and programs of ZSCMST may also render their extension services with the barangay while CME will continue its commitment to the barangay in extending developed technologies for livelihood training and other technical assistance requested.

Along this line, the College of Maritime Education through its different programs will prepare a three-year plan for the College Extension. The College programs will draw plans and projects within their line of expertise and implement them within the target implementation period. Projects previously conducted shall still continue to form part of the extension program for monitoring and evaluation to determine its impact on the community.

Program/Thrusts	Activities/Action	Objectives	Person/Units Responsible	Resources			Time Frame	
				Physical	Financial	Human	Start	End
1. Mass Blood Donation	Conduct Blood donation at ZSCMST Octagon Hall	<ul style="list-style-type: none"> To participate with Red Cross Zamboanga and La Caridad Eagles Club in city wide Bloodletting program 	<ul style="list-style-type: none"> ZSCMST- CME Personnel CME students Red Cross Staff La Caridad Eagles Club Members 			<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMT/BSME Program Adviser CME faculty CME students 	Jan. 2023	Jan. 2023
2. Coastal Clean-Up and Pollution Awareness	Conduct Coastal Clean-up on an adapted Barangay and lecture on Pollution Control Awareness in Participation of MARITIME WEEK 2023	<ul style="list-style-type: none"> Raise awareness about the damage being done to our environment by plastic pollution Help people take responsibility Reduce the amount of plastic pollution that reaches the ocean or harms wildlife Bring the problem of plastic pollution to the forefront of people's minds 	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMT/BSMar.E Program Adviser CME faculty 	Supplies and materials needed for the activities	P10,000.00	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMT/BSMar.E Program Adviser CME faculty CME students 	Aug. 2023	Dec. 2023
2. "MARINO Techs" Welding Training: Phase 2 with Basic First Aid on Electrical and Fire Hazards	Conduct the Continuation of Welding Training at Mampang, Zamboanga City	<ul style="list-style-type: none"> Common Competence Apply Safety Practices Use Hand Tools Prepare Weld Materials Setup Welding Equipment Fit up Weld Materials Repair Welds 	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMar.E Program Adviser CME faculty 	Supplies and materials needed for the activities	P60,000.00	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMar.E Program Adviser CME faculty CME students 	Oct. 2023	Dec. 2023
3. "MARINO Techs" Electrical Wiring Training: Phase 2 with Basic First Aid on Electrical and Fire Hazards	Conduct the Continuation of Electrical wiring Training at Mampang, Zamboanga City	<ul style="list-style-type: none"> Common Competence Use Hand tools Perform Measurement and Calculation Apply Quality Standards Terminate and Connect Electrical Wiring and Electronic Circuits 	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMar.E Program Adviser CME faculty 	Supplies and materials needed for the activities	P60,000.00	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMar.E Program Adviser CME faculty CME students 	Oct. 2023	Dec. 2023
4. Basic Navigation and Seamanship Course (BaNuSCo) with Modified Basic Safety Training	Lecture and Practical exercise on basic Navigation and Seamanship with Modified Basic Safety Training Partnership with MARINA Region 9 office	<ul style="list-style-type: none"> Lecture on importance of environmental sustainability and safe boating practices while navigating waterways. Knit tying basic seamanship skills, including boat handling, anchoring, and d-r-ve 	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMT Program Adviser CME faculty CME students MARINA-IX office personnel 	Supplies and materials needed for the activities	P20,000.00	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMT Program Adviser CME faculty CME students 	Jan. 2024	Feb. 2024

5. "MARINO Techs" Welding Training: Phase 3	Conduct the Continuation of Welding Training in preparation for TESDA Assessment.	<ul style="list-style-type: none"> Core Competences Interpret Drawings and Sketches Perform Industry Calculations Contribute to quality system Weld Carbon Steel Plates and Pipes using SMAW 	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMar.E Program Adviser 	Supplies and materials needed for the activities	P60,000.00	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMar.E Program Adviser CME faculty CME students 	Apr. 2024	Dec. 2024
6. "MARINO Techs" Wiring Training: Phase 3	Conduct the Continuation of Wiring Training in preparation for TESDA Assessment.	<ul style="list-style-type: none"> Core Competence Prepare and Interpret Technical Drawing Perform roughing in activities, wiring and cabling works for single-phase distribution, power, lighting and auxiliary systems Install electrical protective devices for distribution, power, lighting, auxiliary, lighting protection and grounding systems Install wiring devices of floor and wall mounted outlets, lighting fixtures/switches and auxiliary outlets Use of motor control training module help participants to pass the TESDA assessment 	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMar.E Program Adviser CME faculty CME students 	Supplies and materials needed for the activities	P60,000.00	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMar.E Program Adviser CME faculty CME students 	Apr. 2024	Dec. 2024
7. Monitoring for Basic Navigation and Seamanship Course (BaNuSCo) with Modified Basic Safety Training	Monitoring and updates of the fisherfolks participants			Supplies and materials needed for the monitoring	P5,000.00	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMT Program Adviser CME faculty CME students 	June 2024	Oct. 2024
8. "MARINO Techs" Machining Training: Phase 1	Conduct training lecture for Machining training phase 1 at barangay Mampang	<ul style="list-style-type: none"> Basic Competence Participate in workplace communication Work in a team environment Practice career professionalism Practice occupational health and safety procedures 	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMar.E Program Adviser CME faculty 	Supplies and materials needed for the activities	P30,000.00	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMar.E Program Adviser CME faculty CME students 	Oct. 2024	Dec. 2024
9. "MARINO Techs" Welding Training: Phase 4	Prepare the participants for skills training for employability	<ul style="list-style-type: none"> Help participants to be employed after obtaining NC 1 and NC 2 	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMar.E Program Adviser CME faculty 	Supplies and materials needed for the activities	P5,000.00	<ul style="list-style-type: none"> Extension Coordinator Dean TEO Director BSMT/BSME Program Adviser CME faculty CME students 	Jan. 2025	Dec. 2025
10. "MARINO Techs" Machining Training: Phase 4	Prepare the participants to be employed	<ul style="list-style-type: none"> Help participants to be employed 	<ul style="list-style-type: none"> Extension Coordinator Dean 	Supplies and materials	P5,000.00	<ul style="list-style-type: none"> Extension Coordinator 	Jan. 2025	Dec. 2025

Prepared by:

3/E IVAN JUDE P. MARTINEZ
 CME, Extension Coordinator

CAPT. MARNETTE APIT
 CME, FACULTY

GEORGE S. LAURIAGA JR.
 CME, Faculty

Noted by:

C/E CHRISTALYN D.R. CHIONG, MMM.
 CME, Dean

MARLON R. OMATANG
 TEO, Director

Recommending Approval:

RUFA L. MENDEZA, Ph.D.
 VP for Research, Innovation and Extension

Approved by:

JAIME G. JALON, Ph.D.
 College President

December 15-17, 2023
Multi-purpose hall,
Mampang, Zamboanga City



From **December 15 to 17, 2023**, CME Extension Program conducted a **Welding and Wiring Training** at Barangay Mampang, aimed at enhancing the technical skills of participants through hands-on learning and practical application. This training focused on developing essential competencies required in both industries, ensuring that participants are equipped to meet professional standards and workplace demands.

Welding Training

Participants were trained in the following key areas:

- Applying safety practices and ensuring workplace safety.
- Interpreting technical drawings and performing industry calculations.
- Preparing weld materials, setting up equipment, and fitting materials.
- Using hand tools effectively and contributing to quality systems.
- Learning proper techniques for welding and repairing welds.

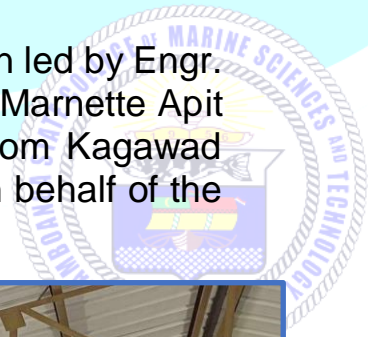
Wiring Training

The wiring module provided participants with competencies in:

- Operating hand tools and performing accurate mensuration and calculations.
- Preparing and interpreting electrical drawings and applying quality standards.
- Terminating and connecting electrical wiring and electronic circuits safely and efficiently.

This training aimed to empower participants with the knowledge and skills to take on real-world tasks confidently. Through expert instruction and practical exercises, the program emphasized safety, precision, and quality, contributing to the professional growth of every trainee.

Day 1: The training kicked off with an interactive learning session led by Engr. Ronilo Jayson (Welding), R/O Jesus Espina (Wiring), and Capt. Marnette Apit (Basic First Aid). The event also featured welcome remarks from Kagawad Glenn Dagalea, the Barangay Official overseeing the activity, on behalf of the Barangay of Mampang.



Day 2. Workshop activity: Creating Actual Project for welding and wiring.



Welding Workshop by Engr. Jayson

After covering the theoretical aspects of welding on Day 1, Engr. Ronilo Jayson proceeded to demonstrate the practical application of welding techniques, emphasizing the importance of safety protocols—an area where many welders often lack knowledge.

Once the demonstration was completed, participants were provided with the necessary tools and materials and were tasked to apply what they had learned through individual practice. Each trainee was instructed to perform various welding strokes to refine their handling skills and improve their timing, ensuring they develop confidence and precision in their technique.

Day 2. Workshop activity: Creating Actual Project for welding and wiring



Wiring Workshop by R/O Espina

Following the theoretical input on Day 1, R/O Jesus Espina guided participants through the practical aspects of creating basic wiring connections. He demonstrated the correct methods for building parallel, series, and multiple connections while emphasizing the importance of safety practices to prevent electric shock—one of the most common injuries caused by a lack of awareness during wiring tasks.

After the demonstration, participants were assigned to apply their learning by creating wiring connections based on the instructions provided, reinforcing their understanding and hands-on skills.

Day 3. Project presentation and awarding of certificates



Output Presentation (Welding)

The welding participants successfully crafted a metal-framed chair designed to seat 2 to 3 people. Throughout the process, they received guidance from Engr. Ronilo Jayson and passed his initial assessment, demonstrating their application of the skills they acquired during the workshop.



Output Presentation (Wiring)

Participants of the wiring training designed and assembled their own connection boards following the guidelines and instructions provided by R/O Jesus Espina. Each board featured various connections and diagrams, showcasing the participants' understanding and application of the concepts learned during the workshop.

Kagawad Glenn Dagalea for the speech of appreciation in behalf of Hon. Leonard Aliangan, Barangay Chairman of Mampang. Kagawad Glenn is the assigned personnel



Certificate of Appreciation Presented to the Resource Speakers:

Engr. Ronilo Jayson, R/O Jesus Espina, and Capt. Marnette Apit



Certificate of Participation Awarded to the Residents of Barangay Mampang and the Students of the College of Maritime Education

MARINO Tech Welding and Wiring Phase 2 Project Proposal



Republic of the Philippines
Zamboanga State College of Marine Sciences and Technology
College of Maritime Education
Fort Pilar, Zamboanga City

Mariners Advancing Regional Industries through Novel Technologies: **MARINO TECHS**
"Enabling Marine and Maritime Communities through livelihood and Technologies"

Title of Project : Phase 2: CME-Community Extension Projects for A.Y. 2023

Proponent : 3/E Ivan Jude P. Martinez
C/E Christaly D.R. Chiong
Capt. Marnette Apit
Marlon R. Omatang
George S. Lauriaga Jr.

Location of Beneficiaries : Barangay Mampang, Zamboanga City

Date of Implementation : September – December, 2023

Source of Funding : STF-Tuition and other fees

Project Cost : 140,000.00

Rationale:

Community Extension Services is an essential function of higher education institutions that derives its plans and programs for the delivery of community services from instruction and research. Conducting community extension service is about relationships in building communities through teaching. The programs and activities are geared toward helping people by empowering themselves through sustainable programs and enabling the programs to reach and "touch the lives" of communities and the environment through services that

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Prepared by:

3/E IVAN JUDE P. MARTINEZ
CME, Extension Coordinator

CAPT. MARNETTE APIT
CME, Assist. Extension Coordinator

GEORGE S. LAURIAGA JR.
CME, Faculty

Noted by:

C/E CHRISTALYN D.R. CHIONG, MMM.
CME, Dean

MARLON R. OMATANG
TEO, Director

Recommending Approval:

RUFAL MENDEZ, Ph.D.
VP for Research and Extension

Approved by:

JAIME G. JALON, Ph.D.
College President

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- Letter to Barangay Mampang to conduct Welding and Wiring Training - Letter to request memorandum for CME Faculty

Republic of the Philippines
ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES AND TECHNOLOGY
Fort Pilar, Rio Hondo, Zamboanga City
Tel. No.: (062) 991-0644 Telefax: (062) 991-0777 website: <http://www.zasmst.edu.ph>

December 12, 2023

HON. LEONARD P. ALIANGAN
Barangay Chairman
Barangay Mampang, Zamboanga City

Dear Sir,

I am writing on behalf of Zamboanga State College of Marine Sciences and Technology- College of Maritime Education Extension program. We are seeking your approval to conduct a **Welding and Wiring training session in Barangay Mampang on December 15-17, 2023.**

The training aims to equip participants with essential skills in welding and wiring, which are valuable in various industries and trades. The sessions will cover safety procedures, equipment operation, basic techniques, and hands-on practice to enhance participants' proficiency in these areas.

We believe that offering this training in Barangay Mampang will benefit community members by providing them with valuable skills that can lead to increased employment opportunities and economic empowerment. By hosting this training, we aim to contribute to the development and growth of the local workforce.

We assure you that all necessary safety precautions and protocols will be followed during the training sessions to ensure a safe and conducive learning environment for all participants.

We kindly request your support and assistance in facilitating the logistics for this training program. Your approval and cooperation are essential to the success of this initiative.

Thank you for considering our proposal. We look forward to the opportunity to collaborate with Barangay Mampang in empowering individuals through skills training.

Thank you for your attention to this matter.

Sincerely,

3/E IVAN JUDE P. MARTINEZ
CME Extension Coordinator

OFFICE OF THE BRGY. COUNCIL
Mampang, Zamboanga City

RECEIVED
DATE: 12/12/23 TIME: 11:40 AM
BY: [Signature]
Position: [Signature]

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Republic of the Philippines
ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES & TECHNOLOGY
Fort Pilar Shrine, Zamboanga City 7000
COLLEGE OF MARITIME EDUCATION
Tel. No.: (062) 991-0647 Telefax: (062) 991-0777 website: <http://www.zasmst.edu.ph> email: zasmst@zasmst.edu.ph

December 14, 2023

DR. JAIME G. JALON
College President
Zamboanga State College of Marine Sciences and Technology

Thru: DR. RACHEL D. LAURIAGA
Vice President for Academic Affairs

Herewith is the list of CME faculty who will be conducting the CME Extension Activity from December 15-17, 2023 in Barangay Mampang, this city. We request that the list faculty members be granted official time for this training duration.

C/E Christaly D.R. Chiong
Mr. Marlon Omatang
R/O Jesus Cristobal Espina
Engr. Ronillo Jayson
Capt. Marnette Apit
2/M Risi Ybera
3/E Ivan Jude Martinez

Thank you for your support.

Very truly yours,
3/E IVAN JUDE P. MARTINEZ
CME Extension Coordinator

Noted by:

C/E CHRISTALYN DR. CHIONG, MMM
Dean, CME

RUFAL L. MENDEZ, Ph.D.
Vice President for Research, Innovation, and Extension

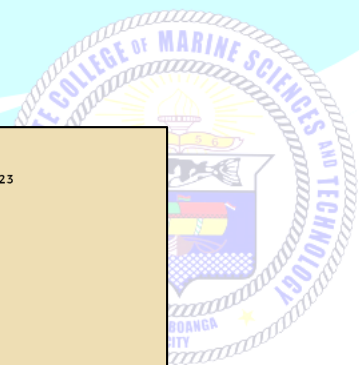
Recommending approval:

RACHEL D. LAURIAGA, Ph.D.
Vice President for Academic Affairs

Approved by:
JAIME G. JALON, Ph.D.
College President

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PROGRAM FLOW



COLLEGE OF MARITIME
EDUCATION



MARINO TECHS: WELDING AND WIRING

MAMPANG MULTI-
PURPOSE HALL,
MAMPANG, ZAMBOANGA
CITY

CME EXTENSION PROGRAM 2023 "MARINO TECHS"

DAY 1:
MORNING SESSION (9:00 AM - 12:00 PM)
REGISTRATION
- SECRETARIAT: RISIL YBERA
NATIONAL ANTHEM
- AVP

WELCOME REMARKS:
- C/E CHRISTALYN DR. CHIONG, MMM
DEAN, COLLEGE OF MARITIME EDUCATION
APPRECIATION REMARKS:
- HON. LEONARD PINGANA ALIANGAN
BARANGAY CAPTAIN, MAMPANG Z.C.

INTRODUCTION OF FACILITATORS AND PARTICIPANTS
OVERVIEW OF THE EXTENSION PROGRAM OBJECTIVES
- MARLON OMATANG
- IVAN JUDE P. MARTINEZ

ENGAGING ACTIVITIES TO ENHANCE BASIC SKILLS (WIRING AND
WELDING)

INTERACTIVE LEARNING SESSIONS
- RONILO JAYSO
- JESUS CRISTOBAL ESPINA

LUNCH

AFTERNOON SESSION (1:00 PM - 4:00 PM)
CONTINUATION OF INTERACTIVE LEARNING SESSIONS
- RONILO JAYSO
- JESUS CRISTOBAL ESPINA

COMMUNITY ENGAGEMENT
BASIC FIRST AID SESSION
- MARNETTE APIT

DAY 2:
MORNING SESSION (9:00 AM - 12:00 PM)
REGISTRATION
- SECRETARIAT: RISIL YBERA
WORKSHOP ACTIVITY (WIRING AND WELDING)
- CREATING ACTUAL PROJECT

LUNCH

AFTERNOON SESSION (1:00 PM - 4:00 PM)
CONTINUATION OF WORKSHOP ACTIVITY
RECAP

DAY 3:

MORNING SESSION (9:00 AM - 12:00 PM)
REGISTRATION
- SECRETARIAT: RISIL YBERA

PROJECT PRESENTATIONS
- GROUPS PRESENT THEIR PROJECTS
- FEEDBACK AND REFLECTION SESSION

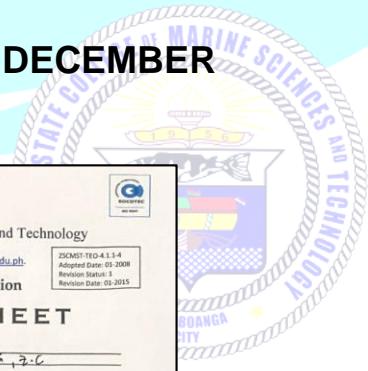
ACKNOWLEDGMENT OF PARTICIPANTS AND FACILITATORS
- MARLON OMATANG (TRAINING AND EXTENSION OFFICE DIRECTOR)

LUNCH

DISTRIBUTION OF CERTIFICATES
- C/E CHRISTALYN DR. CHIONG, MMM

CLOSING REMARKS AND EXPRESSIONS OF GRATITUDE
- C/E CHRISTALYN DR. CHIONG, MMM

ATTENDANCE FOR THE WELDING AND WIRING TRAINING DECEMBER 15, 2024



Republic of the Philippines
Zamboanga State College of Marine Sciences and Technology
 Fort Pilar, Zamboanga City
 Tel. No.: (062) 991-0777 website: <http://www.zscmst.edu.ph>

ZSCMST-TRD-4.1.1-4
 Adopted Date: 01-2008
 Revision Status: 1
 Revision Date: 01-2015

ATTENDANCE SHEET

ACTIVITY: ELECTRICITY WIRING SKILLS TRAINING
 VENUE: MAMPANG MULTI-PURPOSE BARANGAY MAMPANG Z.C.
 DATE: December 15, 2024

NO.	NAME	SEX		OFFICE/AGENCY/BARANGAY /SCHOOL	SIGNATURE
		M	F		
01.	SVELLO SAMUEL III P.	/		ZSCMST - PUTIK	
02.	LAMPANG ABHAR D.	/		ZSCMST - AYALA	
03.	CANDIDO ALIAN JR. S.	/		ZSCMST - Talon-Talon	
04.	Candido Aldria -B	/		Mampang	
05.	RODRIGO ROCOCO J.	/		Mampang	
06.	ELY BARRERA	/		Mampang	
07.	Sigamrin SERRAS	/		Mampang	
08.	CHRISTOPHER N. TORRES	/		Mampang	
09.	RODRIGO P. DULA ROMELO	/		Mampang	
10.	RYSTON CRISTOBAL	/		Mampang	
11.	Arnelino A. FRANCIS	/		Mampang	
12.	CHRISTOPHER TORRES	/		Mampang	
13.	PAULITO JOSEPH TORRES	/		Mampang	
14.	GABRIEL SYMUEL B.	/		ZSCMST	
15.	JIMMY ANIBALE A.	/		ZSCMST Mampang	
16.	Gerard B. Romando	/		Mampang	
17.	Rommel P. Dula Romo	/		Mampang	
18.	Fico Ryan Jandro	/		Mampang	
19.	FRANCIS CHRISTOPHER	/		ZSCMST - CULIATAN	
20.	EUGENE CUEVADA	/		ZSCMST - PC COMPOUND	
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No Nil D. Yebra
 SECRETARIAT

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ATTENDANCE SHEET

ACTIVITY: WELDING SKILLS TRAINING
 VENUE: MULTI-PURPOSE BARANGAY MAMPANG Z.C.
 DATE: DEC 15, 2024

NO.	NAME	SEX		OFFICE/AGENCY/BARANGAY /SCHOOL	SIGNATURE
		M	F		
01.	JIMMY ANIBALE A.	/		ZSCMST - MAMPANG	
02.	FRANCIS CHRISTOPHER	/		ZSCMST - CULIATAN	
03.	EUGENE CUEVADA	/		ZSCMST - PC COMPOUND	
04.	LAMPANG ABHAR D.	/		ZSCMST - AYALA	
05.	CANDIDO ALIAN JR. S.	/		ZSCMST - Talon-Talon	
06.	SVELLO SAMUEL III P.	/		ZSCMST - PUTIK	
07.	CHRISTOPHER TORRES	/		ZSCMST - MAMPANG	
08.	GABRIEL SYMUEL B.	/		ZSCMST - AYALA	
09.	FRANCIS CHRISTOPHER	/		ZSCMST - CULIATAN	
10.	VINCENT ALBERCK P.	/		MAMPANG	
11.	ELY BARRERA	/		Mampang	
12.	RYSTON CRISTOBAL	/		MAMPANG	
13.	ARNOLO JUVANE C.	/		ZSCMST/100DUNOAN	
14.	NORIELLE MITTEL PUEBL	/		MAMPANG	
15.	FRANCIS CHRISTOPHER	/		MAMPANG	
16.	ARNOLO FRANCISCO A.	/		MAMPANG	
17.	ASAJAS ROCCO J.	/		MAMPANG	
18.	TRINIDAD FRANCISCO B.	/		MAMPANG COLAS TORRES	
19.	HEDLADOR ARVIN D.	/		ZSCMST - AYALA	
20.	JAYVEE ARIBTA	/		MAMPANG	
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No Nil D. Yebra
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ATTENDANCE SHEET

ACTIVITY: WELDING SKILLS TRAINING
 VENUE: MULTI-PURPOSE BARANGAY MAMPANG Z.C.
 DATE: DECEMBER 15, 2024

NO.	NAME	SEX		OFFICE/AGENCY/BARANGAY /SCHOOL	SIGNATURE
		M	F		
01.	FRANCIS CHRISTOPHER	/		Talon-Talon	
02.	EUGENE CUEVADA	/		PC COMPOUND	
03.	LAMPANG ABHAR D.	/		AYALA	
04.	JIMMY ANIBALE A.	/		MAMPANG - ZSCMST	
05.	GABRIEL SYMUEL B.	/		ZSCMST - AYALA	
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No Nil D. Yebra
 SECRETARIAT

CERTIFICATES FOR RESOURCE PERSON



CERTIFICATES FOR FACILITATOR



CERTIFICATES FOR PARTICIPANTS





REPUBLIC OF THE PHILIPPINES
ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES AND TECHNOLOGY
Fort Pilar, Rio hondo, Zamboanga City
COLLEGE OF MARITIME EDUCATION



CERTIFICATE OF PARTICIPATION

is hereby given to

ELY P. BARRERA

for successfully completing the College of Maritime Education - "MARINO TECHs" Extension for
Welding and Wiring held on December 15-17, 2023 at the Multipurpose Hall,
Barangay Mampang, Zamboanga City.

Given this 17th day of December 2023 at Mampang, Zamboanga City, Philippines.

C/E CHRISTALYN DR. CHIONG, MMM
Dean, College of Maritime Education

HON. LEONARD P. ALIANGAN
Chairman, Barangay Mampang

JAIME G. JALON Ph.D.
College President

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REPUBLIC OF THE PHILIPPINES
ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES AND TECHNOLOGY
Fort Pilar, Rio hondo, Zamboanga City
COLLEGE OF MARITIME EDUCATION



CERTIFICATE OF PARTICIPATION

is hereby given to

ROCELO J. ASAJAR

for successfully completing the College of Maritime Education - "MARINO TECHs" Extension for
Welding and Wiring held on December 15-17, 2023 at the Multipurpose Hall,
Barangay Mampang, Zamboanga City.

Given this 17th day of December 2023 at Mampang, Zamboanga City, Philippines.

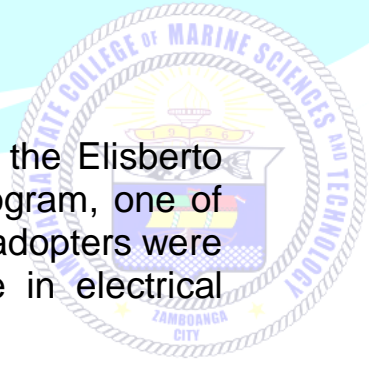
C/E CHRISTALYN DR. CHIONG, MMM
Dean, College of Maritime Education

HON. LEONARD P. ALIANGAN
Chairman, Barangay Mampang

JAIME G. JALON Ph.D.
College President

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Quarterly Monitoring



On March 5, 2024, a face-to-face interview was conducted at the Elisberto residence with participants of the MARINO Techs Welding Program, one of whom is a beneficiary and adopter of the initiative. A total of five adopters were interviewed individually—four specializing in welding and one in electrical wiring.

During the interviews, it was revealed that the participants were able to apply the skills acquired from the training in sideline jobs and their daily activities. Although the income generated from these sidelines is modest, the participants expressed their intention to continue to the next phase of the program. This next stage will serve as a preparatory step for TESDA accreditation, which will qualify them to obtain NC I and NC II certifications upon successful assessment.



CME Faculty together with 5 beneficiaries for the quarterly monitoring



Mr. Elisberto Arieta



Mr. Ely Barrera



Mr. Jayson Cristobal



Mr. Rocelo Asajar



Mr. Jayvee Arieta

Republic of the Philippines
ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES AND TECHNOLOGY
 Fort Pilar, Rio Hondo, Zamboanga City
 Tel. No.: (062) 991-0644 Telefax (062) 991-0777 website: <http://www.zscmst.edu.ph>

COLLEGE OF MARITIME EDUCATION

MARCH 04, 2024

HON. LEONARD P. ALIANGAN
 Barangay Chairman
 Barangay Mampang, Zamboanga City

Dear Hon. Aliangan,

Warm greetings! We are writing to request your kind approval to **conduct monitoring activities in Barangay Mampang as part of our CME "MARINO Tech" Extension Program: welding and wiring training**

The monitoring activity is planned for March 5, 2024 and will focus on evaluating the progress of the project, gathering feedback from beneficiaries, and identifying opportunities for improvement. These efforts are essential to ensure that the project remains aligned with its goals and continues to make a positive impact on the community.

We kindly request your approval to proceed with this activity. Should you need additional information or wish to discuss this further, please feel free to contact us at 09668897415.

Thank you for your support and partnership in this meaningful endeavor. We look forward to your positive response.

Sincerely,

J/E Ivan Jude P. Martinez
 CME Extension Coordinator
 ZSCMST

OFFICE OF THE BRGY. COUNCIL
 Mampang, Zamboanga City

RECEIVED

DATE: 02/14/24 BY: [Signature]
 BY: [Signature]
 Position: [Signature]







Republic of the Philippines
ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES & TECHNOLOGY
 Fort Pilar Shrine, Zamboanga City 7000
COLLEGE OF MARITIME EDUCATION

MARINO TECHS
 WELDING AND WIRING TRAINING

March 05, 2024

Dr. Jaime G. Jalon
 College President
 This College

Dear Dr. Jalon,

I am writing to formally request your approval to conduct monitoring activities in Barangay Mampang as part of our ongoing CME "MARINO Tech" Extension Program: welding and wiring training which aims to promote community development and provide livelihood training to the community of Barangay Mampang.

The monitoring activity is proposed to be conducted on March 5, 2024 and its purpose is to assess the progress of the initiatives implemented, gather feedback from the beneficiaries, and evaluate areas for improvement. This will ensure the continued effectiveness and relevance of the project to the needs of the community.

I respectfully seek your approval for this activity and would be glad to provide any additional information or documentation you may require. Thank you for your continued support in advancing the mission of our institution to contribute meaningfully to the community.

Looking forward to your favorable response.

Sincerely,


IVAN JUDE P. MARTINEZ
 CME Extension Coordinator

Noted by [Signature]
C/IE CHRISTALYN DR. CHIONG
 CME DEAN

APPROVED BY:
[Signature]
JAIME G. JALON, Ph.D.
 COLLEGE PRESIDENT

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Letter to conduct monitoring at Barangay Mampang.

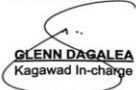

REPUBLIC OF THE PHILIPPINES
ZAMBOANGA CITY
BARANGAY MAMPANG

CERTIFICATION


This is to certify the following residents of Mampang were utilizing the training on Welding and Wiring as part of their jobs or sideline jobs for their source of income effective on December 17, 2024.


1. Elisberto Arieta
2. Jayvee Arieta
3. Rocelo Asajar
4. Ely Barrera
5. Jayson Cristobal

Issued this 5th day of March 2024 at Mampang, Zamboanga City.


GLENN DAGALEA
 Kagawad In-charge

Noted by:


HON. LEONARD P. ALIANGAN
 Barangay Chairman
 Mampang, Zamboanga City



REPUBLIC OF THE PHILIPPINES
ZAMBOANGA CITY
BARANGAY MAMPANG

CERTIFICATE OF ATTENDANCE

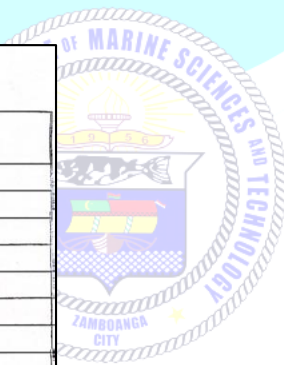
This certifies that IVAN JUDE MARTINEZ and RONILO JAYSON has attended Monitoring Activity in Barangay Mampang as part of the CME "MARINO Tech" Extension Program: Welding and Wiring training conducted on March 5, 2024 at Juan Barrera Drive, Mampang, Zamboanga City.

This activity was organized to support the objectives of CME "MARINO Tech" Extension Program in providing trainings, community service and livelihood programs.

Issued this 5th day of March, 2024.


HON. LEONARD P. ALIANGAN
 Barangay Chairman

Certification for the participants who adopt the training and certificate of attendance to faculty who conducted the monitoring.



Income Summary for 2023			
Elisberto and Jayvee Arieta	Income	Expenses	Net Income
January	2,500.00	1,500.00	1,000.00
February	1,000.00	400.00	600.00
March	1,000.00	200.00	800.00
April	1,500.00	400.00	1,100.00
May	2,100.00	900.00	1,200.00
June	2,500.00	1,200.00	1,300.00
July	1,500.00	500.00	1,500.00
August	2,300.00	500.00	1,800.00
September	2,000.00	400.00	1,600.00
October	2,000.00	400.00	1,600.00
November	2,100.00	400.00	1,700.00
December	3,200.00	600.00	2,600.00
Total	21,600.00	7,400.00	14,200.00

Income Report and Background of Mr. Elisberto and Mr. Jayvee Arieta (2023)

The table above presents the income of Mr. Elisberto and Mr. Jayvee Arieta for 2023, with the majority of their earnings generated from small welding projects.

Background

Both Mr. Elisberto and Mr. Jayvee Arieta participated in the 2019 Extension Welding Program. After the pandemic, Mr. Elisberto successfully applied his welding skills to his shop, which primarily focuses on motorcycle repair and customization. The training enabled him to increase his income by taking on additional customer projects, particularly in custom accessories.

In the second quarter of 2023, Mr. Elisberto expanded his operations by hiring his nephew, Mr. Jayvee Arieta, who also completed the same welding program. Initially, Mr. Jayvee took on sideline welding jobs in Barangay Lapuyan, located on the East Coast of Zamboanga. However, the high travel costs between his residence in Barangay Mampang and Lapuyan made it challenging to sustain his income. As a result, he decided to join his uncle's shop in May 2023.

Currently, Mr. Elisberto and Mr. Jayvee operate their shop using a pakyawan (project-based) system, accepting welding and repair jobs. To support their livelihood and enhance their operations, the CME Marino Techs Extension Program donated materials and basic equipment, enabling them to establish the Marino Techs Metals Works and Repair Shop. This new facility not only strengthens their capacity to take on more metalworking projects but also provides future adopters of the CME Marino Techs Program with opportunities to develop their skills and improve their income.

Jayvee Arieta's Journey

Jayvee Arieta's story is one of perseverance and determination. In December 2023, he embarked on a life-changing path by enrolling in a welding training program offered by the "MARINO Techs" Extension Program. Building on this foundation, he committed to advancing his skills, successfully completing the next phase of training between June and November 2024.



Armed with hands-on experience and a comprehensive skill set from the program, Jayvee set out to find meaningful employment. His dedication paid off when he was hired as a contractual Mechanic Maintenance worker at the Coca-Cola factory. One of the key factors in securing this position was the quality of training he received at MARINO Techs, which greatly enhanced his credentials.

Jayvee's uncle, Mr. Elisberto Arieta, also played a pivotal role in this milestone by providing a strong recommendation that highlighted Jayvee's work ethic and capabilities. Today, Jayvee takes pride in his new role, maintaining and repairing machinery at the factory. His journey serves as a testament to the transformative power of education, skill-building, and unwavering support from family.

Adaptors of 2023 CME-MARINO Techs Extension Welding and Wiring Program

Ely Barrera

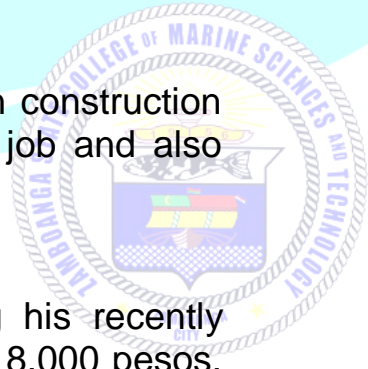
Ely utilizes his training as a source of additional income. A senior high school student specializing in automotive at Talon-Talon National High School, he assists his uncle on welding and other tasks during weekends and free days. For each job completed, he earns between 300 and 350 pesos.

Norellenitzel Fidel

Norellenitzel takes on welding jobs at his home on a project-based arrangement. His earnings vary depending on the size of the project. Occasionally, he collaborates with Ely Barrera on welding tasks from neighbors. Recently, they worked on assembling and attaching a sidecar to a motorcycle, expecting a payment of 2,000 pesos.

Jayson Cristobal

Jayson applies his training by taking on welding jobs under the Pakyawaw system. Operating from his residence, he earns an average of 1,500 pesos monthly.



Ronan Kleford Estrada

Ronan, a working student attending an ALS program, takes on construction projects during his free time. He earns about 350 pesos per job and also incorporates his welding training into his construction work.

Vincent Alberca

Vincent works as a welder on a part-time basis, leveraging his recently acquired skills. His monthly income ranges between 5,000 and 8,000 pesos. Currently, he is involved in a house construction project for a relative, operating under a project-based arrangement with steel framework.

Rocelo Asajar

Rocelo, though currently unemployed, performs basic wiring installations in his community. After completing training from MARINO Techs, his confidence and job opportunities in wiring installations grew. He typically earns 200 pesos per project.

Ramelecion Trupa

Ramelecion specializes in small-scale wiring installations and repairs for neighbors. His earnings average around 300 pesos per project.

All participants have less knowledge and understanding of welding and wiring. But through MARINO Techs, they gained additional knowledge and understanding in these fields. They all wanted to proceed with the Phase 3 program, which gave them a chance to acquire the NC 2 certificate from TESDA. And by acquiring these certificates, they have a bigger chance to acquire a permanent and sustainable job in the future.

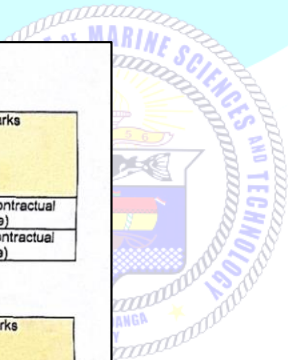



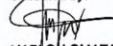
Table 2, Monitoring and Evaluation of the ZSCMST-CME Extension Services Implemented last 2019

Extension Programs/ Activities	Date Implemented	Numbers of participants	Number of Participants Employed/Livelihood Entitlements				Total Employed Livelihood Entitlements	Remarks
			Yearly					
			2020	2021	2022	2023		
1. Skills Training on Metal Arc-Welding	December 21-23, 2019	28	1		2	1	4 (14.29 %)	Workers (contractual base)
2. Skills Training on Metal Arc-Welding	December 21-23, 2019	28			1		1 (3.57 %)	Workers (contractual base)

Table 2, Monitoring and Evaluation of ZSCMST-CME "MARINO Techs" Extension program implemented last 2023

Extension Programs/ Activities	Date Implemented	Numbers of participants	Number of Participants Employed/Livelihood Entitlements				Total Employed Livelihood Entitlements	Remarks
			Yearly					
			2024	2025	2026	2027		
1. MASS BLOOD Donation Octagon Hall, ZSCMST, ZC	January 20, 2023	200						
2. Maritime Week Coastal Clean - Up ZSCMST Coastal Area, ZC	September 23, 2023							
3. MARINO Techs Training on Shield Metal Arc-Welding	December 15-17, 2023	25	5				5 (20.0 %)	Workers (contractual base)
4. MARINO Techs Training on Wiring Installation	December 15-17, 2023	25	2				2 (8.0 %)	Workers (contractual base)

Prepared by:

 3/E IVAN JUDE P. MARTINEZ
 CME Extension Coordinator

Validated by:

 MARLON OMATANG
 Training and Extension Office Director

As presented in Table 2, the monitoring and evaluation of the CME extension activities on Skills Training on Metal Arc-Welding as of 2023, 4 out of 28 or 14.29% of the participants were able to find a job as a worker who works for an employer, under contract where an individual undertakes to do personal work or services as a welder with a salary depending on the number of days they rendered. One of them decided to pursue a college degree and became a full time student and the other one migrated outside of Zamboanga City.

On the Skills Training on Building Wiring and Maintenance, there was 1 out of 28, or 3.57% of the participants was able to land a job as an electrician under contract with a salary also depending on the number of days they rendered.

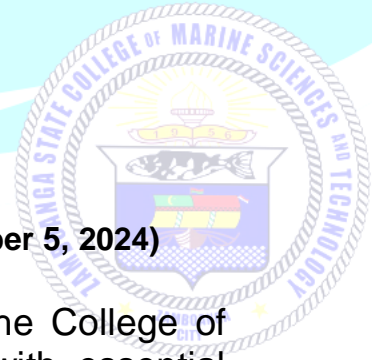
On the other hand, our beneficiaries were able to gain knowledge on the awareness of proper ways on conducting wiring and welding operation. Also gained knowledge on Basic First Aid for burn, Electric shock and other types of injuries that can be encountered on Welding and Wiring Operation if negligence occurs.

Phase 3

Welding and Wiring Training

ZSCMST Campus

(June 15 and 22, September 21 and 28, October 5 and 19, November 5, 2024)



The "MARINO Techs" Extension Program is an initiative of the College of Maritime Education (CME) aimed at equipping participants with essential technical skills in Welding and Electrical Installation and Maintenance. Aligned with the standards set by the Technical Education and Skills Development Authority (TESDA), this program is designed to prepare trainees for the National Certificate Level II (NC II) Assessment, enhancing their qualifications and employability in the maritime and industrial sectors.

The program commenced on June 15, 2024, and conclude on November 9, 2024, following several months of intensive hands-on training. It accommodates 10 trainees in Welding and 3 trainees in Wiring (Electrical Installation and Maintenance). Each participant undergoes structured modules focusing on practical techniques, industry best practices, and safety protocols, ensuring they meet the competencies required for TESDA accreditation.

Through the MARINO Techs Extension Program, the CME extends its commitment beyond the classroom, empowering individuals with specialized technical skills essential for personal and professional growth. This initiative also strengthens the college's mission to produce competent, globally competitive professionals ready to excel in their fields.

As part of our school's drive for continuous improvement and community engagement, this program exemplifies our dedication to training excellence. Its outcomes will contribute meaningfully to our accreditation process, showcasing the effectiveness of CME's initiatives in aligning education with industry standards.

Wiring (Electrical Installation and Maintenance)

During the MARINO Techs training, participants will engage in a series of hands-on activities aligned with the core competencies required by TESDA. Specifically, trainees in Electrical Installation and Maintenance will:

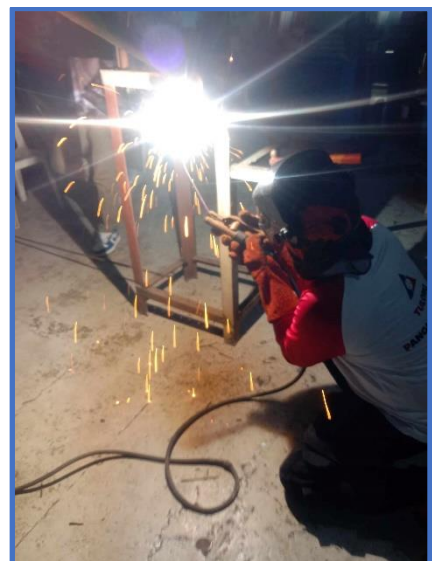
- Perform roughing-in activities, wiring, and cabling for single-phase distribution, power, lighting, and auxiliary systems.
- Install electrical protective devices for distribution systems, including lightning protection and grounding.
- Install wiring devices such as floor and wall-mounted outlets, lighting fixtures, switches, and auxiliary outlets.
- These tasks will provide participants with the practical skills necessary to meet industry standards and prepare them for the TESDA NC II Assessment, ensuring they gain both technical proficiency and safety awareness.



Welding

During the MARINO Techs training, participants in the Welding Program will focus on mastering core competencies required for TESDA NC II. Specifically, trainees will:

- Weld carbon steel plates and pipes using Shielded Metal Arc Welding (SMAW) techniques.
- Perform fillet and groove welds in various positions to meet industry standards.
- Apply proper welding procedures to ensure high-quality and structurally sound welds.
- Follow safety protocols to handle welding equipment and materials effectively.
- These practical exercises aim to prepare trainees for the TESDA NC II Assessment, equipping them with the necessary skills for career opportunities in the maritime, industrial, and construction sectors.



MARINO Tech Welding and Wiring Phase 3 Project Proposal



Republic of the Philippines
Zamboanga State College of Marine Sciences and Technology
College of Maritime Education
Fort Pilar, Zamboanga City



Mariners Advancing Regional Industries through Novel Technologies: **MARINO TECHS**

"Enabling Marine and Maritime Communities through livelihood and Technologies"

Title of Project : Phase 3: CME-Community Extension Projects and Basic Navigation and Seamanship Course (BaNaSCo)
For AY: 2023-2024

Proponent : 3/E Ivan Jude P. Martinez
C/E Christalyn D.R. Chiong
Capt. Marnette Apit
Marlon R. Omatang
George S. Lauriaga Jr.

Location of Beneficiaries : Barangay Mampang, Zamboanga City

Date of Implementation : February– December, 2024

Source of Funding : STF-Tuition and other fees


Project Cost : 100,000.00


Rationale:


Community Extension Services is an essential function of higher education institutions that derives its plans and programs for the delivery of community services from instruction and research. Conducting community extension service is about relationships in building communities through teaching. The programs and activities are geared toward helping people by empowering themselves through sustainable programs and enabling the programs to reach and "touch the lives" of communities and the environment through services that transfer knowledge and technologies to create an impact on holistic and sustainable development programs and people empowerment.

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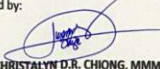
Prepared by:


3/E IVAN JUDE P. MARTINEZ
CME, Extension Coordinator


CAPT. MARNETTE APIT
CME, FACULTY

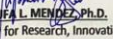

GEORGE S. LAURIAGA JR.
CME, Faculty

Noted by:



C/E CHRISTALYN D.R. CHIONG, MMM.
CME, Dean


MARLON R. OMATANG
TEO, Director

Recommending Approval:


RUFA L. MENDEZ, Ph.D.
VPI for Research, Innovation and Extension

Approved by:


JAIME G. JALÓN, Ph.D.
College President

11

Letter to conduct Phase 3 Welding and Wiring Training at ZSCMST



ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES & TECHNOLOGY
Fort Pilar Shrine, Zamboanga City 7000
COLLEGE OF MARITIME EDUCATION

MARINO TECHS WELDING AND WIRING TRAINING

May 03, 2024

Dr. Jaime G. Jalon
College President
This College

Subject: Request Approval for weekly Welding and Wiring Training in Campus

Dear Dr. Jalon,

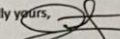
This has reference to the approved extension program of the college **MARINO Techs- Maritime Teachers Teach Technology**. The program aims to provide practical skills training to our participants in the field of welding and wiring to enhance their technical knowledge and improve their employability. As we are now on **Phase 3** of the program implementation, I would like to request for the approval to conduct Welding and Wiring Training at school campus (CME Machine shop and CME Electro-Laboratory).

Specifically, the training sessions are scheduled every Saturday from May to July 2024. The participants will gain hands-on experience and industry-relevant skills that will benefit them in their future careers by conducting this training in campus. The training will be facilitated by qualified instructors from College of Maritime Education, ensuring high-quality education and professional guidance throughout the program. We believe that this program will not only enrich the learning experience of our participants but also contribute to the overall growth of our educational institution. A separate attachment referring to the program flow with the assigned faculty and their specific task will be provided.

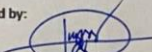
In view hereof, I am requesting for the approved work schedule of faculty involved (See attached list) and the access of Mampang resident trainees (List of names attached) on the schedule training dates along with the approved use of the facilities and equipment.

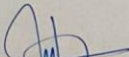
Thank you very much for your continued support.

Respectfully yours,

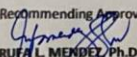

3/E IVAN JUDE P. MARTINEZ
CME Extension Coordinator

Noted by:



C/E CHRISTALYN DR. CHIONG, MMM
CME Dean
Director


MARLON R. OMATANG
Training and Extension Office

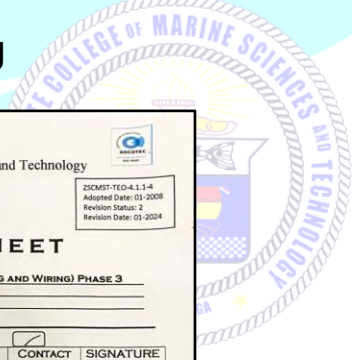
Recommending Approval:


RUFUS L. MENDEL, Ph.D.
VP for Research, Innovation and Extension

Approved by:


JAIME G. JALON, Ph.D.
College President
FRUEN FLOW

Attendance sheet for Phase 3 Welding and Wiring



Republic of the Philippines
Zamboanga State College of Marine Sciences and Technology
 Research, Innovation, & Extension Office
 Fort Pilar, Zamboanga City
 website: <http://www.vprii.edu.ph>

ZSCMST-TEO-4.1.1-4
 Adopted Date: 01-2008
 Revision Status: 2
 Revision Date: 01-2024

ATTENDANCE SHEET

ACTIVITY: CME MARINO TECHS EXTENSION PROGRAM (WELDING AND WIRING) PHASE 3
 VENUE : ZSCMST-CAMPUS A
 DATE : 10/16/24

N.O.	AM		PM		SIGNATURE
	NAME	OFFICE/AGENCY/BARANGAY/SCHOOL	CONTACT NUMBER	OFFICE/AGENCY/BARANGAY/SCHOOL	
01.	REGAS, JIMWEL I.	CME - FACULTY	0938494041		[Signature]
02.	IVAN JUDE P. MARTILLOZ	CME - FACULTY	0938494041		[Signature]
03.	ARLETA, ANGELOBERT P.		0938494041		[Signature]
04.	ARNO, CLAREN H.		0938494041		[Signature]
05.	ARAGON, JOEL A. JA.		0938494041		[Signature]
06.	ARANDA, JOSEPH M.		0938494041		[Signature]
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3/16 IVAN JUDE MARTILLOZ
 SECRETARIAT

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ATTENDANCE SHEET

ACTIVITY: CME MARINO TECHS EXTENSION PROGRAM (WELDING AND WIRING) PHASE 3
 VENUE : ZSCMST-CAMPUS A
 DATE : October 17, 2024

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3/16 IVAN JUDE MARTILLOZ
 SECRETARIAT

Construction of MARINO Techs Metal works and Repair shop (Income generating project) March- October 2024



In March 2024, the construction of a small workshop began at the residence of Elisberto Arieta in Barangay Mampang. This shop was established as part of the income-generating initiative for the participants of the CME MARINO Techs Extension Program: Welding Training. The goal was to provide a sustainable livelihood for the beneficiaries through welding and metalworks services, empowering them to contribute to their community and improve their economic standing.

The shop, now fully operational as of October 2024, is managed by Elisberto Arieta along with his nephews Jayson and Jayvee Arieta, and supported by skilled workers Nick Santos and Hamillton Ballovar. Each member brings unique expertise in welding and fabrication, and together, they have quickly formed a dynamic team committed to delivering quality products and services.

The shop's first major job order was a custom-made cage for a fighting rooster, a popular item in the local community. Jayvee Arieta took charge of the project, ensuring that the cage was built to the specifications requested by the customer. The total cost for the cage was 3,500 pesos, with 2,000 pesos allocated for materials and 1,500 pesos for labor. This first order not only marked the successful launch of the shop's operations but also signaled the potential for future projects in the growing demand for custom metal works in Barangay Mampang.

As the shop continues to grow, Elisberto and his team aim to expand their client base, offering services such as custom metal gates, furniture, and other welded products. The project has proven to be a promising source of income, providing the beneficiaries with stable livelihoods and helping to foster a sense of self-reliance and community pride.

Through this small but thriving workshop, the Arieta family and their team have laid the foundation for a sustainable business that will continue to contribute to the economic development of Barangay Mampang for years to come.

March – May 2024 Shop status:
Established foundation and roofing



June – August 2024 Shop Status
Most of the flooring are finished.

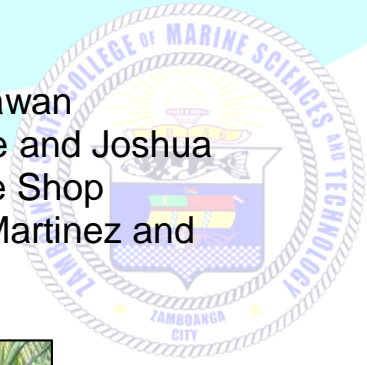


September – October 2024 Shop status
Full completion of the shop



Turn over ceremony (October 2, 2024)

J and B chopper bobber build and iron works (together with kagawan Dagalea and kagawan Arquiza, the operators of the shop Jayvee and Joshua Arieta, Nick Santos and Hamilton Ballovar, the Part-Owner of the Shop Elisberto Arieta and the CME Extension Coordinator Ivan Jude Martinez and Training and Extension Office Director Marlon Omatang).



Other Activities

Maritime Week celebration 2024



Mangrove Clean Up at ZSCMST Campus B

The College of Marine Engineering (CME) students and faculty members actively participated in a coastal cleanup at the mangrove area of ZSCMST Campus B. This environmental initiative aimed to restore and preserve the mangrove ecosystem by removing trash and debris that threaten its biodiversity. The event showcased the participants' commitment to environmental stewardship, teamwork, and the promotion of sustainable coastal management. The activity concluded with a renewed sense of responsibility toward protecting marine environments, reinforcing the institution's advocacy for ecological preservation.



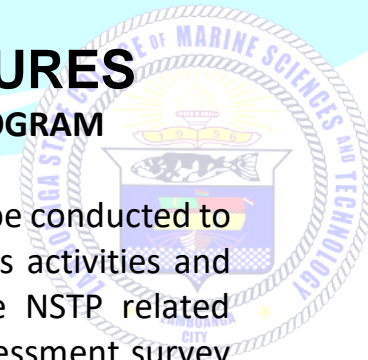
Bridge and Engine Room Simulator Expo

The College of Maritime Education (CME) showcased its expertise through the Bridge and Engine Simulator Expo, an event facilitated by the CME Faculty In-charge for Simulators and CME students. The expo provided students from the College of Liberal Arts with an engaging, hands-on experience using advanced simulation equipment. Participants explored the complexities of navigation and engine control systems through guided demonstrations and interactive activities. The event emphasized the technical proficiency of the CME while fostering interdepartmental collaboration and inspiring a deeper appreciation for maritime operations.

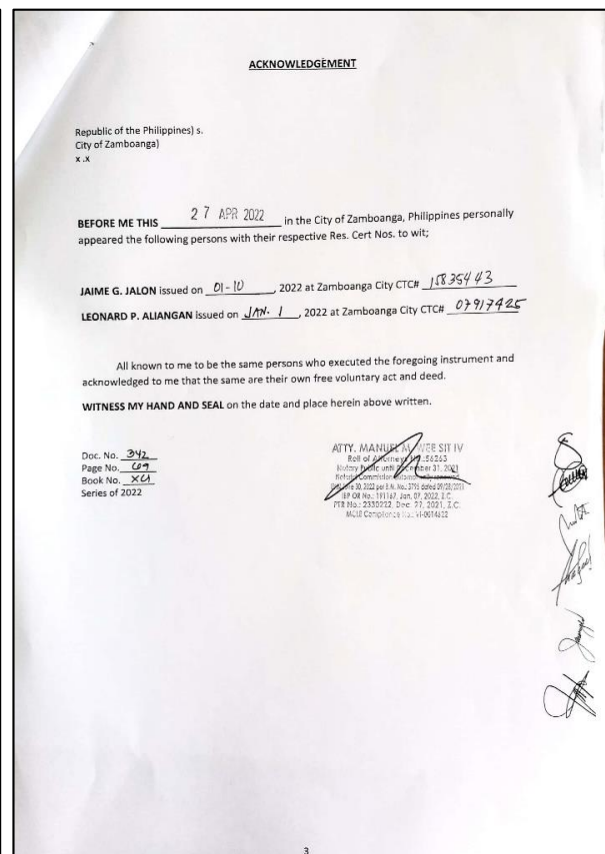
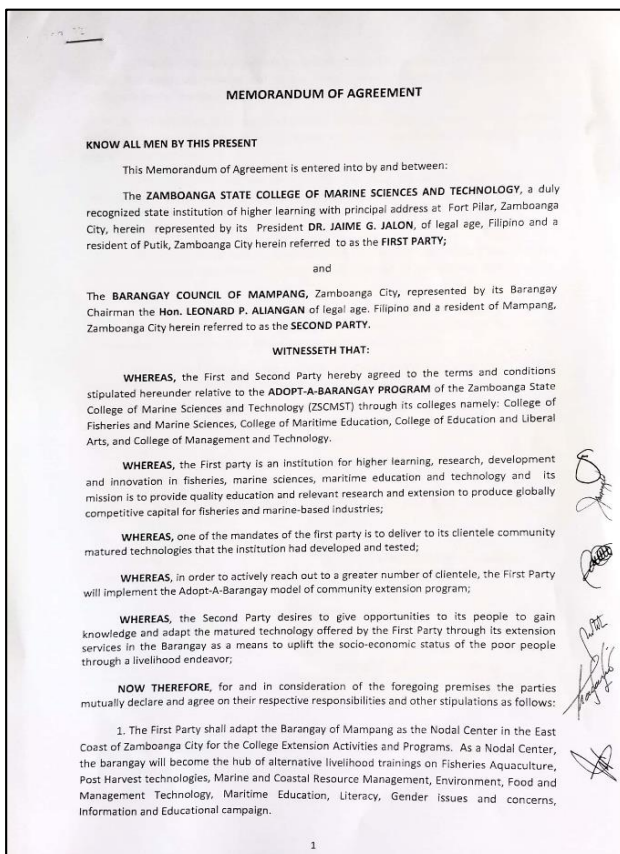


SYSTEMATIC & EFFECTIVE PROCEDURES

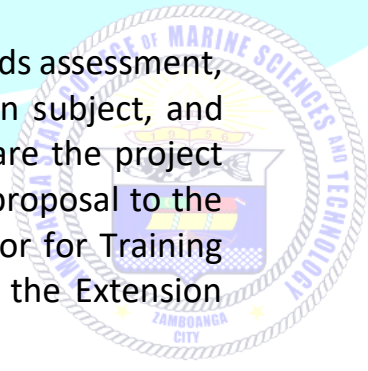
PROTOCOLS/PROCEDURES FOR "ADOPT-A-BARANGAY" PROGRAM



- 1. Initial visit to Barangay** – a courtesy visit to barangay officials will be conducted to be able to present the concept of Adopt-a-Barangay program, its activities and benefits that will be derived from the programs including the NSTP related activities. Initial agreement can be forged pending the needs assessment survey initiative.
- 2. Conduct Needs Assessment** – to identify the different concerns of the intended client beneficiaries of the extension programs, a needs assessment will be made of the area or sector. The project implementation team identifies the target areas and sectors based on the approved project proposal.
- 3. Memorandum of Agreement (MOA)** – from the initial agreement, drafting and signing of the MOA can be initiated while the needs assessment survey result is underway.



4. Development of Project Proposal – Based on the finding of the needs assessment, the extension coordinators with the background and expertise on subject, and whose college can implement the program component will prepare the project proposal. The Dean / Coordinator of the college will endorse the proposal to the Executive Director for Research and Extension through the Director for Training and Extension. The Executive Director of REO will then convene the Extension Review Committee to deliberate on the proposal.



Republic of the Philippines
Zamboanga State College of Marine Sciences and Technology
 College of Maritime Education
 Fort Pilar, Zamboanga City

Mariners Advancing Regional Industries through Novel Technologies: **MARINO TECHS**
 "Enabling Marine and Maritime Communities through Livelihood and Technologies"

Title of Project : Phase 2: CME-Community Extension Projects
 for A.Y. 2023

Proponent : 3/E Ivan Jude P. Martinez
 C/E Christaly D.R. Chiong
 Capt. Marnette Apit
 Marlon R. Omatang
 George S. Lauriaga Jr.

Location of Beneficiaries : Barangay Mampang, Zamboanga City

Date of Implementation : September – December, 2023

Source of Funding : STF-Tuition and other fees

Project Cost : 140,000.00

Rationale:

Community Extension Services is an essential function of higher education institutions that derives its plans and programs for the delivery of community services from instruction and research. Conducting community extension service is about relationships in building communities through teaching. The programs and activities are geared toward helping people by empowering themselves through sustainable programs and enabling the programs to reach and "touch the lives" of communities and the environment through services that

3:28 PM
 10-4-23
 CME DEAN
 700 for 10/4/23

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Prepared by:

3/E IVAN JUDE P. MARTINEZ
 CME, Extension Coordinator

CAPT. MARNETTE APIT
 CME, Assist. Extension Coordinator

GEORGE S. LAURIAGA JR.
 CME, Faculty

Noted by:

C/E CHRISTALYN D.R. CHIONG, MMM.
 CME, Dean

MARLON R. OMATANG
 TEO, Director

Recommending Approval:

RUFAL L. MENDEZ, Ph.D.
 VP for Research and Extension

Approved by:

JAIME G. JALON, Ph.D.
 College President

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5. Approval and Funding of the Project Proposal – all project proposal will be initially approved by the Dean of the College for the College for endorsement to the Executive Director for Research and Extension. Once the committee approved the proposal, the Executive Director for Research and Extension endorses the said approved proposal to the President for Final Approval. All projects needing external funding support will be properly endorsed by the College President to the funding agencies.

ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES AND TECHNOLOGY											
Annual Procurement Plan-NON-CSE for FY 2023 (BASED ON GAA FY 2023)											
Code (PAP)	Procurement Project	PMO/ End-User	Is this an Early Procurement Activity? (Yes/No)	Mode of Procurement	Schedule for Each Procurement Activity				Source of Funds	Estimated Budget (PhP)	
					Advertisement/ Posting of IB/REI	Submission/ Opening of Bids	Notice of Award	Contract Signing		Total	MOOE
	Meals and Snacks for Peer Listeners - Self-Care Seminar	Guidance & Counseling Office	No	NP- 59.3 Small Value Procurement	13-Jan-23	--	--	--	STF - FIDUCIARY	10,000.00	10,000.00
	Meals and Snacks for Peer Listeners - Annual Orientation	Guidance & Counseling Office	No	NP- 59.3 Small Value Procurement	5-Jul-23	--	--	--	STF - FIDUCIARY	10,000.00	10,000.00
	Meals and Snacks for Peer Listeners - Leadership and Basic Counseling Seminar	Guidance & Counseling Office	No	NP- 59.3 Small Value Procurement	5-Jul-23	--	--	--	STF - FIDUCIARY	10,000.00	10,000.00
	Meals and Snacks for Peer Listeners - Annual Planning and Evaluation	Guidance & Counseling Office	No	NP- 59.3 Small Value Procurement	5-Jul-23	--	--	--	STF - FIDUCIARY	2,000.00	2,000.00
	Expenditures for ZSCMST PALARO FY 2023	Sports and Socio-Cultural Office	No	Competitive Bidding	5-Jul-23	19-Jul-23	26-Jul-23	29-Jul-23	STF - FIDUCIARY	100,000.00	100,000.00
	Procurement of Various Supplies and Materials for ZSCMST participation in the MAST Games FY 2023	Sports and Socio-Cultural Office	No	Competitive Bidding	5-Jul-23	19-Jul-23	26-Jul-23	29-Jul-23	STF - FIDUCIARY	500,000.00	500,000.00
	National Service Training Program (NSTP) Completion Ceremony (Supplies, Meals and Tokens)	NSTP	No	Competitive Bidding	1-Mar-23	15-Mar-23	15-Mar-23	17-Mar-23	STF - TUITION & OTHER FEES	25,400.00	25,400.00
	Procurement of Meals and Snacks for the conduct of Extension Program and Outreach Activities, 1 Lot	NSTP	No	Small -Value Procurement	1-Mar-23	--	--	--	STF - TUITION & OTHER FEES	26,605.00	26,605.00
	Procurement of Supplies, Snacks and Lunch for the conduct of Seminar of NSTP	NSTP	No	Competitive Bidding	17-Jan-23	24-Jan-23	27-Jan-23	30-Jan-23	STF - TUITION & OTHER FEES	9,000.00	9,000.00
	Procurement of Supplies, Snacks and Lunch for the conduct of Annual General Tactical Inspection (Onsite Visit) of NSTP-ROTC	NSTP	No	Competitive Bidding	5-Jul-23	19-Jul-23	26-Jul-23	29-Jul-23	STF - TUITION & OTHER FEES	19,948.00	19,948.00
	Procurement of Meals and Snacks for Training/Seminar-Workshop on Extension - 1st Activity, 1 Lot	TEO	No	Small -Value Procurement	12-Jan-23	--	--	--	STF - TUITION & OTHER FEES	30,000.00	30,000.00
	Conduct of Training, Seminar & Workshop on Community Extension Services for Four Colleges	TEO	No	Competitive Bidding	1-Mar-23	15-Mar-23	15-Mar-23	17-Mar-23	STF - TUITION & OTHER FEES	230,000.00	230,000.00
	Training & Extension Workshop on Extension - CFMS, 4 Lots										
	Conduct of Training & Extension Activity of CFMS - 1st Activity, 1 Lot	TEO	No	Competitive Bidding	1-Mar-23	15-Mar-23	15-Mar-23	17-Mar-23	STF - TUITION & OTHER FEES	110,000.00	110,000.00
	Procurement of Meals and Snacks for Training & Extension Services - 3rd Activity	TEO	No	Small -Value Procurement	5-Jul-23	--	--	--	STF - TUITION & OTHER FEES	30,000.00	30,000.00
	Training & Extension Workshop on Extension - CME, 4 Lots										
	Conduct of Training & Extension Activity of CME - 1st Activity, 1 Lot	TEO	No	Competitive Bidding	1-Mar-23	15-Mar-23	15-Mar-23	17-Mar-23	STF - TUITION & OTHER FEES	30,000.00	30,000.00
	Procurement of Meals and Snacks for Training & Extension Services - 3rd Activity	TEO	No	Small -Value Procurement	5-Jul-23	--	--	--	STF - TUITION & OTHER FEES	30,000.00	30,000.00

ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES AND TECHNOLOGY												
Annual Procurement Plan-NON-CSE for FY 2023 (BASED ON GAA FY 2023)												
Code (PAP)	Procurement Project	PMO/ End-User	Is this an Early Procurement Activity? (Yes/No)	Mode of Procurement	Schedule for Each Procurement Activity				Source of Funds	Estimated Budget (PhP)		
					Advertisement/ Posting of IB/REI	Submission/ Opening of Bids	Notice of Award	Contract Signing		Total	MOOE	C
OTHER MACHINERY & EQUIPMENT												
	Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment	College Database Center	No	Public Bidding	1-Mar-23	15-Mar-23	15-Mar-23	17-Mar-23	FUND 101 - Continuing	2,025,000.00		2,025,000.00
	Procurement of 2 units Grass Cutter, Heavy Duty	Ground Maintenance	No	Competitive Bidding	7-Mar-23	17-Mar-23	17-Mar-23	21-Mar-23	FUND 101	60,000.00	60,000.00	
	Installation and Energization of 3 Units 37.5KVA Transformer at SOLAS Training Center	CME	No	Competitive Bidding	17-Jan-23	6-Feb-23	6-Feb-23	10-Feb-23	STF - FIDUCIARY	900,000.00		900,000.00
	Upgrading of the One (1) kilowatt into Ten (10) Kilowatts of Zamboanga State College of Marine Sciences & Technology (ZSCMST) - Philippine Broadcasting Service (PBS) Marine News FM Broadcast transmitter	Marino News FM and ID Printing	Yes	Competitive Bidding	10-Oct-22	26-Oct-22	31-Oct-22	4-Nov-22	FUND 101	11,000,000.00		11,000,000.00
Total										72,676,032.55	27,451,802.00	45,524,230.55
Mandatory Reserve (10%)										7,267,603.26	2,745,180.20	4,552,423.06
Grand Total										80,273,635.81	30,196,982.20	50,076,653.61

FUNDING SOURCE:

FUND 101	-
FUND 101 - CONTINUING	7,300,000.00
DOST - FIC	-
CHED-Funds	-
STF - TUITION & OTHER FEES	10,091,603.00
STF - FIDUCIARY	18,942,630.55
IGP - FOOD	1,341,449.00
TOTAL	37,675,682.55
	(36,300,380.00)

Prepared by:

JENNELYN N. NAPALCRUZ
BAC Secretariat

Recommending Approval:

ALVIN C. REYES, RN, Ed. D.
Vice-President for Administration & Finance

Certified Funds Available:

MARK JAMES A. ALBA
Budget Officer

ERIC S. VILLANUEVA, CPA
College Accountant
Director, Finance Management Services

Approved by:

JAIME S. JALON, Ph.D.
College President

6. Implementation of Projects, Programs and Activities – a project implementation team will be organized by the project proponent (usually the extension coordinators or faculty who developed the proposal) who will act as team leader and manages the overall conduct of the project with support from the Director for Training and Extension and his staff. The team members will all work together based on their delegated tasks and functions. No revisions on the proposals will be made once the project is on-going. The team leader prepares a monthly report and submits a copy to the dean of the college concerned and a copy to the office of the Executive Director for Research and Extension.

Republic of the Philippines
ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES AND TECHNOLOGY
Fort Pilar, Rio Hondo, Zamboanga City
Tel. No.: (062) 991-0644 Telefax (062) 991-0777 website: <http://www.zsstmst.edu.ph>

December 12, 2023

HON. LEONARD P. ALIANGAN
Barangay Chairman
Barangay Mampang, Zamboanga City

Dear Sir,

I am writing on behalf of Zamboanga State College of Marine Sciences and Technology- College of Maritime Education Extension program. We are seeking your approval to conduct a **Welding and Wiring training session in Barangay Mampang on December 15-17, 2023.**

The training aims to equip participants with essential skills in welding and wiring, which are valuable in various industries and trades. The sessions will cover safety procedures, equipment operation, basic techniques, and hands-on practice to enhance participants' proficiency in these areas.

We believe that offering this training in Barangay Mampang will benefit community members by providing them with valuable skills that can lead to increased employment opportunities and economic empowerment. By hosting this training, we aim to contribute to the development and growth of the local workforce.

We assure you that all necessary safety precautions and protocols will be followed during the training sessions to ensure a safe and conducive learning environment for all participants.

We kindly request your support and assistance in facilitating the logistics for this training program. Your approval and cooperation are essential to the success of this initiative.

Thank you for considering our proposal. We look forward to the opportunity to collaborate with Barangay Mampang in empowering individuals through skills training.


Thank you for your attention to this matter.

Sincerely,

3/E IVAN JUDE P. MARTINEZ
CME Extension Coordinator

OFFICE OF THE BRGY. COUNCIL
Mampang, Zamboanga City

RECEIVED
DATE: 12/17/23 TIME: 11:14 AM
BY: *[Signature]*
Position: *[Signature]*



Republic of the Philippines
ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES & TECHNOLOGY
Fort Pilar Shrine, Zamboanga City 7000
COLLEGE OF MARITIME EDUCATION
Tel No.: (062) 991-0647 Telefax (062) 991-0777 website: <http://www.zsstmst.edu.ph> email: register@zsstmst.edu.ph

December 14, 2023

DR. JAIME G. JALON
College President
Zamboanga State College of Marine Sciences and Technology

Thru: DR. RACHEL D. LAURIAGA
Vice President for Academic Affairs

Herewith is the list of CME faculty who will be conducting the CME Extension Activity from December 15-17, 2023 in Barangay Mampang, this city. We request that the list faculty members be granted official time for this training duration.

C/E Christalyn DR. Chiong
Mr. Marlon Omatang
R/D Jesus Cristobal Espina
Engr. Romilo Jayson
Capt. Marnette Agit
2/M Rishi Ybera
3/E Ivan Jude Martinez

Thank you for your support.

Very truly yours,

3/E IVAN JUDE P. MARTINEZ
CME Extension Coordinator

Noted by:

C/E CHRISTALYN DR. CHIONG, MMM
Dean, CME

RIVFAL MENDEZ, Ph.D
Vice President for Research, Innovation, and Extension

Recommending approval:

RACHEL D. LAURIAGA, Ph.D
Vice President for Academic Affairs

Approved by:
JAIME G. JALON, Ph.D
College President

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12/17/23 4:57 PM

Republic of the Philippines
Zamboanga State College of Marine Sciences and Technology
Fort Pilar, Zamboanga City
Tel. No.: (062) 991-0777 website: <http://www.zscol.edu.ph>

FORM TFO-4.1.4
Revised Date: 01-2008
Revision Status: 1
Revision Date: 01-2013

ATTENDANCE SHEET

ACTIVITY: WELDING SKILLS TRAINING
VENUE: MULTI-PURPOSE BARANGAY HALL, BARANGAY KAMPANG 2-C
DATE: DECEMBER 14, 2013

NO.	AM		PM		SIGNATURE
	NAME	STATUS	NAME	STATUS	
01.	SHILOU DANIEL W. D.	✓	ISMAELI RUTHE	✓	
02.	LAPANG BOLANG D.	✓	ZS CRPT / AYALA	✓	
03.	CANDINO ALVARO JR. S.	✓	ZS CRPT / Toba-Fish	✓	
04.	CANDIDO ALVARO B.	✓	MAMPANG	✓	
05.	WALTER ROSCO F.	✓	MAMPANG	✓	
06.	EVY BERTHA	✓	MAMPANG	✓	
07.	SHARINA DELMAS	✓	MAMPANG	✓	
08.	CHRISTOPHER N. TORRES	✓	MAMPANG	✓	
09.	ROBERTO P. DELA CRUZ JR.	✓	MAMPANG	✓	
10.	RESMARK CRISTOPAL	✓	MAMPANG	✓	
11.	ERELINDA FRANCIS	✓	MAMPANG	✓	
12.	CHRISTOPHER E.	✓	MAMPANG	✓	
13.	MARINO LOPEZ	✓	MAMPANG	✓	
14.	CHRISTOPHER B.	✓	ZS CRPT	✓	
15.	JUAN ANTONIO A.	✓	ZS CRPT	✓	
16.	CHRISTOPHER B.	✓	MAMPANG	✓	
17.	CHRISTOPHER B.	✓	MAMPANG	✓	
18.	CHRISTOPHER B.	✓	MAMPANG	✓	
19.	CHRISTOPHER B.	✓	ZS CRPT - CALAPAN	✓	
20.	EUGENE GUEZARD	✓	ZS CRPT - PE. COMMAND	✓	
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Yo Neil S. Querc
SECRETARIAT

Republic of the Philippines
Zamboanga State College of Marine Sciences and Technology
Fort Pilar, Zamboanga City
Tel. No.: (062) 991-0777 website: <http://www.zscol.edu.ph>

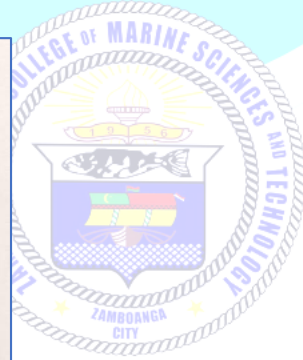
FORM TFO-4.1.4
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ATTENDANCE SHEET

ACTIVITY: WELDING SKILLS TRAINING
VENUE: MULTI-PURPOSE BARANGAY HALL, BARANGAY KAMPANG 2-C
DATE: DECEMBER 14, 2013

NO.	AM		PM		SIGNATURE
	NAME	STATUS	NAME	STATUS	
01.	SHILOU DANIEL W. D.	✓	TRIANI-TRIANI	✓	
02.	QUERENA BOLANG F.	✓	PE. COMMAND	✓	
03.	LAPANG BOLANG D.	✓	AYALA	✓	
04.	CANDINO ALVARO JR. S.	✓	MAMPANG - SECRET	✓	
05.	WALTER ROSCO F.	✓	ZS CRPT - SECRET	✓	
06.	EVY BERTHA	✓	ZS CRPT - Toba-Fish	✓	
07.	CHRISTOPHER N. TORRES	✓	ZS CRPT - MAMPANG	✓	
08.	ROBERTO P. DELA CRUZ JR.	✓	ZS CRPT - POTA	✓	
09.	RESMARK CRISTOPAL	✓	ZS CRPT - CALAPAN	✓	
10.	ERELINDA FRANCIS	✓	ZS CRPT - BARANGAY	✓	
11.	CHRISTOPHER E.	✓	MAMPANG	✓	
12.	MARINO LOPEZ	✓	MAMPANG	✓	
13.	CHRISTOPHER B.	✓	MAMPANG	✓	
14.	CHRISTOPHER B.	✓	MAMPANG	✓	
15.	CHRISTOPHER B.	✓	MAMPANG	✓	
16.	CHRISTOPHER B.	✓	MAMPANG	✓	
17.	CHRISTOPHER B.	✓	MAMPANG	✓	
18.	CHRISTOPHER B.	✓	MAMPANG	✓	
19.	CHRISTOPHER B.	✓	ZS CRPT - AYALA	✓	
20.	CHRISTOPHER B.	✓	MAMPANG	✓	
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Yo Neil S. Querc
SECRETARIAT



Republic of the Philippines
Zamboanga State College of Marine Sciences and Technology
Fort Pilar, Zamboanga City
Tel. No.: (062) 991-0777 website: <http://www.zscol.edu.ph>

FORM TFO-4.1.4
Revised Date: 01-2008
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ATTENDANCE SHEET

ACTIVITY: WELDING SKILLS TRAINING
VENUE: MULTI-PURPOSE BARANGAY HALL, BARANGAY KAMPANG 2-C
DATE: DECEMBER 14, 2013

NO.	AM		PM		SIGNATURE
	NAME	STATUS	NAME	STATUS	
01.	SHILOU DANIEL W. D.	✓	TRIANI-TRIANI	✓	
02.	QUERENA BOLANG F.	✓	PE. COMMAND	✓	
03.	LAPANG BOLANG D.	✓	AYALA	✓	
04.	CANDINO ALVARO JR. S.	✓	MAMPANG - SECRET	✓	
05.	WALTER ROSCO F.	✓	ZS CRPT - SECRET	✓	
06.	EVY BERTHA	✓	ZS CRPT - Toba-Fish	✓	
07.	CHRISTOPHER N. TORRES	✓	ZS CRPT - MAMPANG	✓	
08.	ROBERTO P. DELA CRUZ JR.	✓	ZS CRPT - POTA	✓	
09.	RESMARK CRISTOPAL	✓	ZS CRPT - CALAPAN	✓	
10.	ERELINDA FRANCIS	✓	ZS CRPT - BARANGAY	✓	
11.	CHRISTOPHER E.	✓	MAMPANG	✓	
12.	MARINO LOPEZ	✓	MAMPANG	✓	
13.	CHRISTOPHER B.	✓	MAMPANG	✓	
14.	CHRISTOPHER B.	✓	MAMPANG	✓	
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16.	CHRISTOPHER B.	✓	MAMPANG	✓	
17.	CHRISTOPHER B.	✓	MAMPANG	✓	
18.	CHRISTOPHER B.	✓	MAMPANG	✓	
19.	CHRISTOPHER B.	✓	ZS CRPT - AYALA	✓	
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Yo Neil S. Querc
SECRETARIAT



7. Monitoring and Evaluation of Projects and Activities – The Director for Training and Extension is directly responsible in monitoring and evaluation of all projects, programs and activities. Monthly and quarterly visits will be done to ensure that activities are carried out efficiently and effectively. Quarterly evaluations will also be made to ensure that outputs are attained and the objectives are met. The monthly report submitted to the concerned college by the project implementation team can be validated during monitoring and evaluation visits of the Director for Training and Extension. Any minor deviations to improve implementation of the project will be properly noted and acted upon by the dean of the college and the Director for Training and Extension.

Republic of the Philippines
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 Fort Pilar, Rio Hondo, Zamboanga City
 Tel. No.: (062) 991-0644 Telefax (062) 991-0777 website: <http://www.zscmst.edu.ph>

COLLEGE OF MARITIME EDUCATION

MARCH 04, 2024

HON. LEONARD P. ALIANGAN
 Barangay Chairman
 Barangay Mampang, Zamboanga City

Dear Hon. Aliangan,

Warm greetings! We are writing to request your kind approval to conduct monitoring activities in Barangay Mampang as part of our CME "MARINO Tech" Extension Program: welding and wiring training

The monitoring activity is planned for March 5, 2024 and will focus on evaluating the progress of the project, gathering feedback from beneficiaries, and identifying opportunities for improvement. These efforts are essential to ensure that the project remains aligned with its goals and continues to make a positive impact on the community.

We kindly request your approval to proceed with this activity. Should you need additional information or wish to discuss this further, please feel free to contact us at 09668897415.

Thank you for your support and partnership in this meaningful endeavor. We look forward to your positive response.

Sincerely,
 J/E Ivan Jude P. Martinez
 CME Extension Coordinator
 ZSCMST

OFFICE OF THE BRGY. COUNCIL
 Mampang, Zamboanga City
RECEIVED
 DATE: 03/14/24
 BY: [Signature]
 POSITION: [Signature]

Republic of the Philippines
 ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES & TECHNOLOGY
 Fort Pilar Shrine, Zamboanga City 7000
 COLLEGE OF MARITIME EDUCATION

MARINO TECHS
 WELDING AND WIRING TRAINING

March 05, 2024

Dr. Jaime G. Jalon
 College President
 This College

Dear Dr. Jalon,

I am writing to formally request your approval to conduct monitoring activities in Barangay Mampang as part of our ongoing CME "MARINO Tech" Extension Program: welding and wiring training which aims to promote community development and provide livelihood training to the community of Barangay Mampang.

The monitoring activity is proposed to be conducted on March 5, 2024 and its purpose is to assess the progress of the initiatives implemented, gather feedback from the beneficiaries, and evaluate areas for improvement. This will ensure the continued effectiveness and relevance of the project to the needs of the community.

I respectfully seek your approval for this activity and would be glad to provide any additional information or documentation you may require. Thank you for your continued support in advancing the mission of our institution to contribute meaningfully to the community.

Looking forward to your favorable response.

Sincerely,
 IVAN JUDE P. MARTINEZ
 CME Extension Coordinator


Noted by: [Signature]
 C/E CHRISTALYN DR. CHIONG
 CME DEAN

APPROVED BY:
 JAIME G. JALON, Ph.D.
 COLLEGE PRESIDENT

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Letter to conduct monitoring at Barangay Mampang.

REPUBLIC OF THE PHILIPPINES
 ZAMBOANGA CITY
 BARANGAY MAMPANG

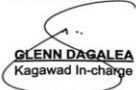


CERTIFICATION


This is to certify the following residents of Mampang were utilizing the training on Welding and Wiring as part of their jobs or sideline jobs for their source of income effective on December 17, 2024.

1. Elisberto Arieta
2. Jayvee Arieta
3. Rocelo Asajar
4. Ely Barrera
5. Jayson Cristobal


Issued this 5th day of March 2024 at Mampang, Zamboanga City.


GLENN DAGALEA
 Kagawad In-charge

Noted by:


HON. LEONARD P. ALIANGAN
 Barangay Chairman
 Mampang, Zamboanga City

REPUBLIC OF THE PHILIPPINES
 ZAMBOANGA CITY
 BARANGAY MAMPANG




CERTIFICATE OF ATTENDANCE

This certifies that **IVAN JUDE MARTINEZ and RONILO JAYSON** has attended Monitoring Activity in Barangay Mampang as part of the **CME "MARINO Tech" Extension Program: Welding and Wiring training** conducted on **March 5, 2024** at **Juan Barrera Drive, Mampang, Zamboanga City.**

This activity was organized to support the objectives of **CME "MARINO Tech" Extension Program** in providing trainings, community service and livelihood programs.

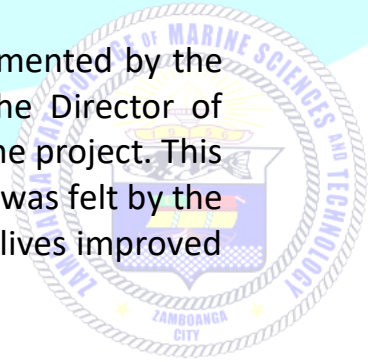
Issued this **5th day of March, 2024.**


HON. LEONARD P. ALIANGAN
 Barangay Chairman

Certification for the participants who adopt the training and certificate of attendance to faculty who conducted the monitoring.



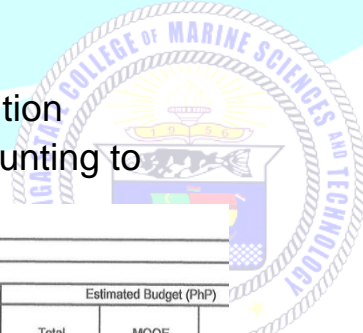
2 CME Faculty with the 5 Participants During monitoring.



- 8. Impact Assessment of the Project** – all project funded and implemented by the different colleges will be subjected to impact assessment by the Director of Training and Extension and his staff after a year of completion of the project. This is to determine whether or not our presence in a certain barangay was felt by the people of the said barangay and that whether the quality of their lives improved because of our interventions.
- 9. Results/Outcomes** – results will be evaluated whether or not the quality of their lives improved because of the project. If good, present and disseminate the results, if not good replicate and develop a community driven program for extension.
- 10. Presentation and Dissemination** – Paper presentation and or poster presentation, regional, national, and international are highly encouraged to give an impact and distinction of the extension services of the College.
- 11. Publication** – Paper publication, non-refereed regional journal, national refereed journal, and or national refereed journal are also encouraging faculty handling extension service for wider dissemination and reference purposes.

REASONABLE BUDGET

- Extension Budget depends on the annual budget for institution
- For C.Y. 2023, extension services had a Total budget amounting to 120,000.00



ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES AND TECHNOLOGY												
Annual Procurement Plan-NON-CSE for FY 2023 (BASED ON GAA FY 2023)												
Code [PAP]	Procurement Project	PMO/ End-User	Is this an Early Procurement Activity? (Yes/No)	Mode of Procurement	Schedule for Each Procurement Activity				Source of Funds	Estimated Budget (PhP)		
					Advertisement/ Posting of IB/REI	Submission/ Opening of Bids	Notice of Award	Contract Signing		Total	MOOE	
	Meals and Snacks for Peer Listeners - Self-Care Seminar	Guidance & Counseling Office	No	NP- 59.3 Small Value Procurement	13-Jan-23	--	--	--	STF - FIDUCIARY	10,000.00	10,000.00	
	Meals and Snacks for Peer Listeners - Annual Orientation	Guidance & Counseling Office	No	NP- 59.3 Small Value Procurement	5-Jul-23	--	--	--	STF - FIDUCIARY	10,000.00	10,000.00	
	Meals and Snacks for Peer Listeners - Leadership and Basic Counseling Seminar	Guidance & Counseling Office	No	NP- 59.3 Small Value Procurement	5-Jul-23	--	--	--	STF - FIDUCIARY	10,000.00	10,000.00	
	Meals and Snacks for Peer Listeners - Annual Planning and Evaluation	Guidance & Counseling Office	No	NP- 59.3 Small Value Procurement	5-Jul-23	--	--	--	STF - FIDUCIARY	2,000.00	2,000.00	
	Expenditures for ZSCMST PALARAO FY 2023	Sports and Socio-Cultural Office	No	Competitive Bidding	5-Jul-23	19-Jul-23	26-Jul-23	29-Jul-23	STF - FIDUCIARY	100,000.00	100,000.00	
	Procurement of Various Supplies and Materials for ZSCMST participation in the MAST Games FY 2023	Sports and Socio-Cultural Office	No	Competitive Bidding	5-Jul-23	19-Jul-23	26-Jul-23	29-Jul-23	STF - FIDUCIARY	500,000.00	500,000.00	
	National Service Training Program (NSTP) Completion Ceremony (Supplies, Meals and Tokens)	NSTP	No	Competitive Bidding	1-Mar-23	15-Mar-23	15-Mar-23	17-Mar-23	STF - TUITION & OTHER FEES	25,400.00	25,400.00	
	Procurement of Meals and Snacks for the conduct of Extension Program and Outreach Activities, 1 Lot	NSTP	No	Small -Value Procurement	1-Mar-23	--	--	--	STF - TUITION & OTHER FEES	26,605.00	26,605.00	
	Procurement of Supplies, Snacks and Lunch for the conduct of Seminar of NSTP	NSTP	No	Competitive Bidding	17-Jan-23	24-Jan-23	27-Jan-23	30-Jan-23	STF - TUITION & OTHER FEES	9,000.00	9,000.00	
	Procurement of Supplies, Snacks and Lunch for the conduct of Annual General Tactical Inspection (Onsite Visit) of NSTP-ROTC	NSTP	No	Competitive Bidding	5-Jul-23	19-Jul-23	26-Jul-23	29-Jul-23	STF - TUITION & OTHER FEES	19,948.00	19,948.00	
	Procurement of Meals and Snacks for Training/Seminar-Workshop on Extension - 1st Activity, 1 Lot	TEO	No	Small -Value Procurement	12-Jan-23	--	--	--	STF - TUITION & OTHER FEES	30,000.00	30,000.00	
	Conduct of Training, Seminar & Workshop on Community Extension Services for Four Colleges	TEO	No	Competitive Bidding	1-Mar-23	15-Mar-23	15-Mar-23	17-Mar-23	STF - TUITION & OTHER FEES	230,000.00	230,000.00	
	Training & Extension Workshop on Extension - CFMS, 4 Lots											
	Conduct of Training & Extension Activity of CFMS - 1st Activity, 1 Lot	TEO	No	Competitive Bidding	1-Mar-23	15-Mar-23	15-Mar-23	17-Mar-23	STF - TUITION & OTHER FEES	110,000.00	110,000.00	
	Procurement of Meals and Snacks for Training & Extension Services - 3rd Activity	TEO	No	Small -Value Procurement	5-Jul-23	--	--	--	STF - TUITION & OTHER FEES	30,000.00	30,000.00	
	Training & Extension Workshop on Extension - CME, 4 Lots											
	Conduct of Training & Extension Activity of CME - 1st Activity, 1 Lot	TEO	No	Competitive Bidding	1-Mar-23	15-Mar-23	15-Mar-23	17-Mar-23	STF - TUITION & OTHER FEES	90,000.00	90,000.00	
	Procurement of Meals and Snacks for Training & Extension Services - 3rd Activity	TEO	No	Small -Value Procurement	5-Jul-23	--	--	--	STF - TUITION & OTHER FEES	30,000.00	30,000.00	

ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES AND TECHNOLOGY												
Annual Procurement Plan-NON-CSE for FY 2023 (BASED ON GAA FY 2023)												
Code [PAP]	Procurement Project	PMO/ End-User	Is this an Early Procurement Activity? (Yes/No)	Mode of Procurement	Schedule for Each Procurement Activity				Source of Funds	Estimated Budget (PhP)		C
					Advertisement/ Posting of IB/REI	Submission/ Opening of Bids	Notice of Award	Contract Signing		Total	MOOE	
OTHER MACHINERY & EQUIPMENT												
	Infrastructure and Smart Campus Development, Operationalization of Face-to-Face Classes and Upgrading/Procurement of Equipment	College Database Center	No	Public Bidding	1-Mar-23	15-Mar-23	15-Mar-23	17-Mar-23	FUND 101 - Continuing	2,025,000.00		2,025
	Procurement of 2 units Grass Cutter, Heavy Duty	Ground Maintenance	No	Competitive Bidding	7-Mar-23	17-Mar-23	17-Mar-23	21-Mar-23	FUND 101	60,000.00	60,000.00	
	Installation and Energization of 3 Units 37.5KVA Transformer at SOLAS Training Center	CME	No	Competitive Bidding	17-Jan-23	6-Feb-23	6-Feb-23	10-Feb-23	STF - FIDUCIARY	900,000.00		900
	Upgrading of the One (1) kilowatt into Ten (10) Kilowatts of Zamboanga State College of Marine Sciences & Technology (ZSCMST) - Philippine Broadcasting Service (PBS) Marino News FM Broadcast transmitter	Marino News FM and ID Printing	Yes	Competitive Bidding	10-Oct-22	26-Oct-22	31-Oct-22	4-Nov-22	FUND 101	11,000,000.00		11,000
Total										72,976,032.65	27,451,802.00	45,524
Mandatory Reserve (10%)										7,297,603.26	2,745,180.20	4,552
Grand Total										80,273,635.91	30,196,982.20	50,076

FUNDING SOURCE:		
FUND 101	-	
FUND 101 - CONTINUING	7,300,000.00	
DOST - FIC	-	
CHED-Funds	-	
STF - TUITION & OTHER FEES	10,091,803.00	
STF - FIDUCIARY	18,942,830.55	
IGP - FOOD	1,341,449.00	
TOTAL	37,675,682.55	(35,300,350.00)

Prepared by:

JENEVYN NAPALCRUZ
 BAC Secretariat

Certified Funds Available:

MARK JAMES A. ALBA
 Budget Officer

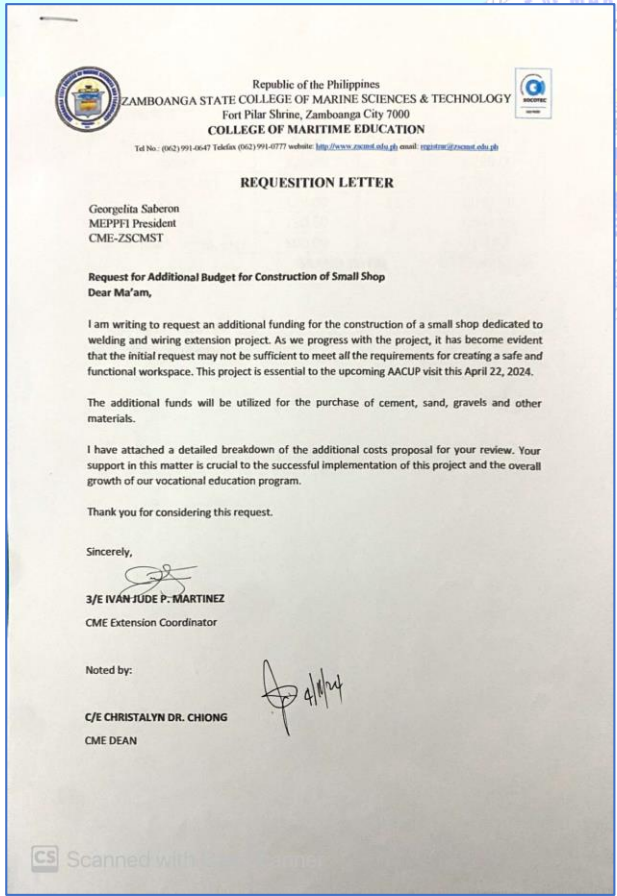
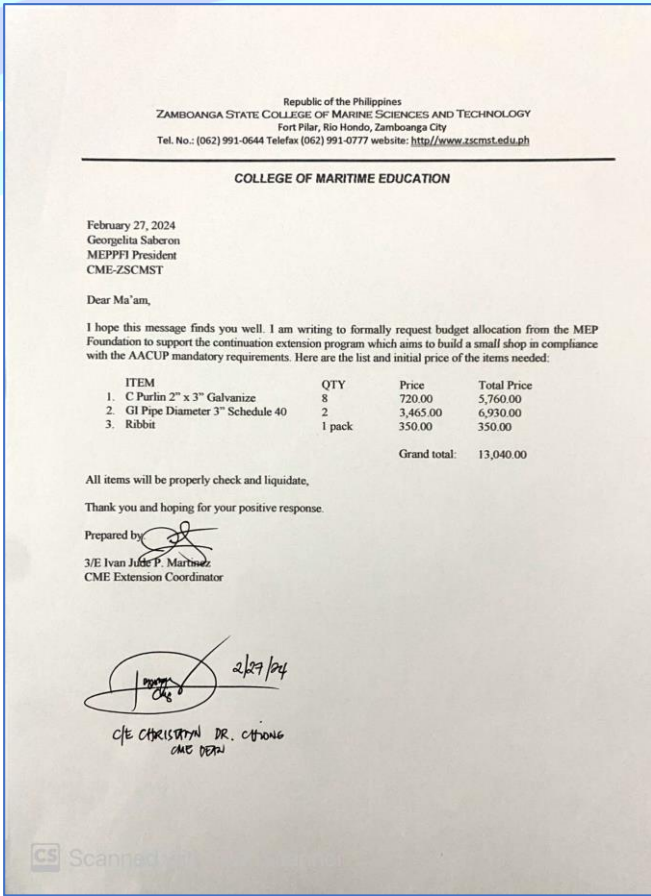
ERIC S. VILLANUEVA, CPA
 College Accountant
 Director, Finance Management Services

Recommending Approval:

ALVIN C. REYES, RN, Ed. D.
 Vice-President for Administration & Finance

Approved by:

JAIME D. JALON, Ph.D.
 College President



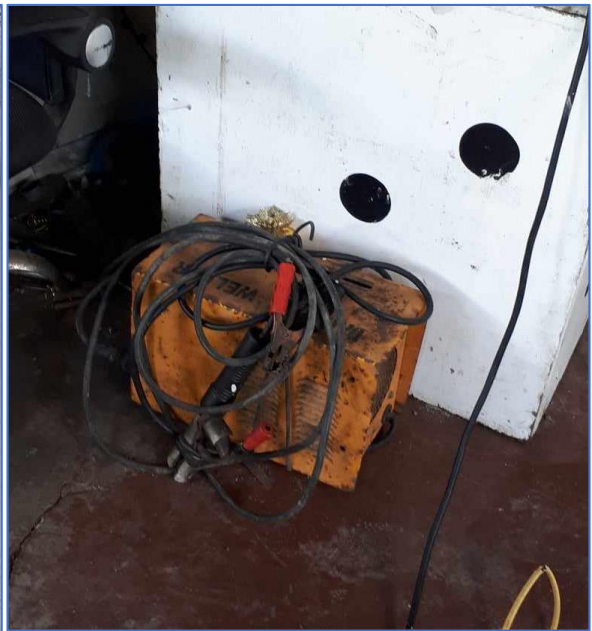
- Fund Request to MEPPFI (Maritime Education Parents and Faculty Foundation Inc.) for the construction of the MARINO Tech Small shop for sustainability program for the welding and wiring training adopters

PROVISION OF MATERIALS & OTHER RESOURCES



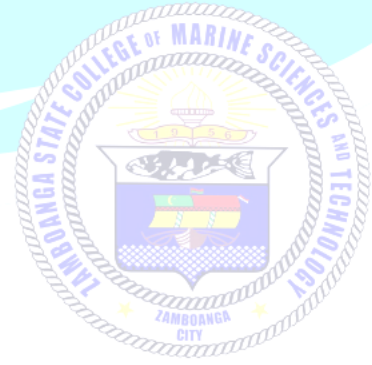
Materials used during MARINO Techs Welding and Wiring training:

1. Welding machine
2. Electrical Demonstration Board
3. Welding rods
4. Angle Bars
5. Angle Grinders
6. Wires and Cables
7. Breaker Switch

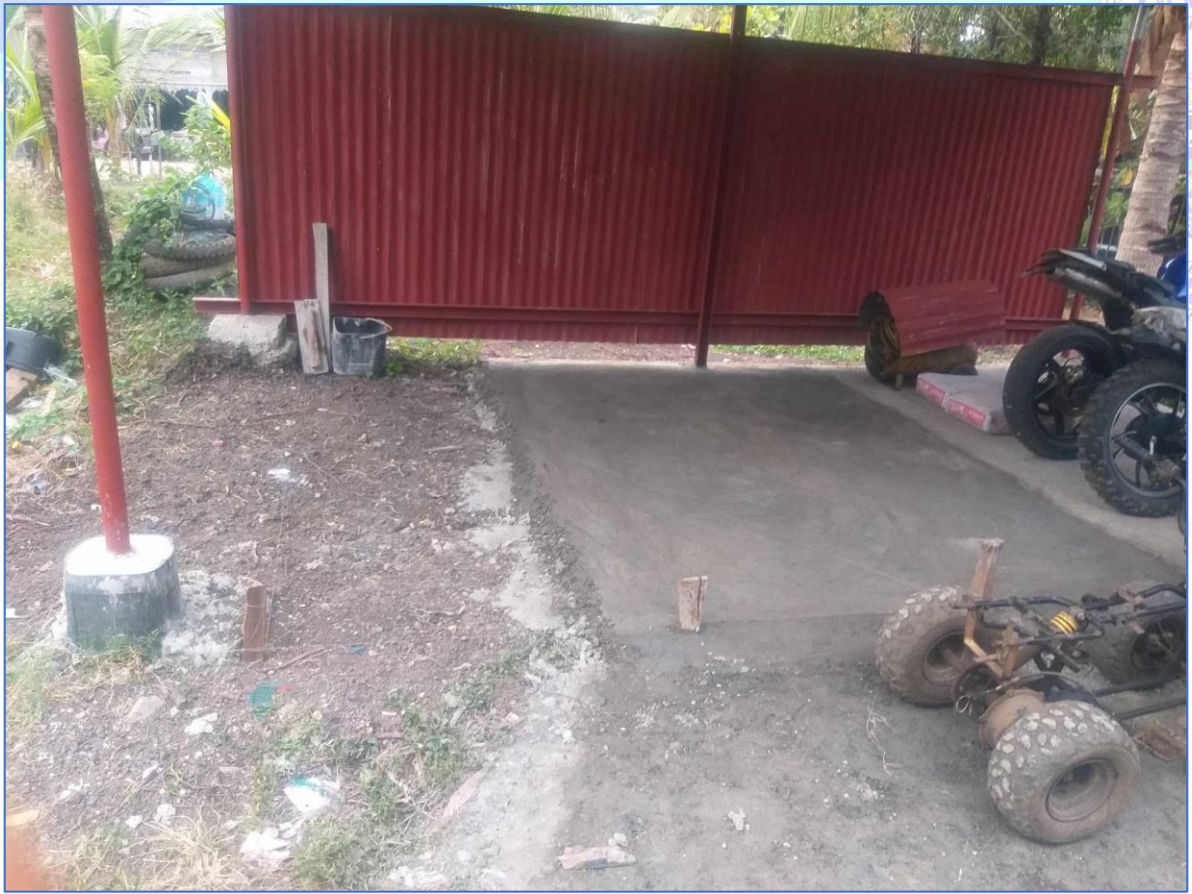


Materials used on building MARINO Techs shop:

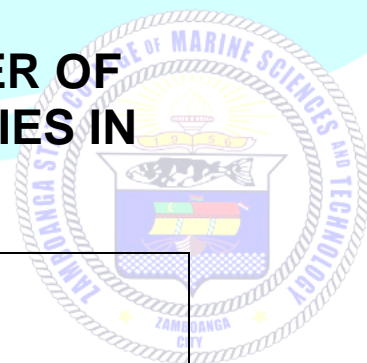
1. C Purlin
2. GI Pipe
3. Round bar
4. Welding Rod
5. Grinding Disk
6. Welding Machine
7. Angle Grinder
8. Sand and Gravel
9. Cement
10. Roofing








PARTICIPATION OF SIGNIFICANT NUMBER OF FACULTY/ STAFF/ STUDENTS/COMMUNITIES IN MAJOR PROJECTS/ACTIVITIES



<p>CME Extension Program "MARINO Techs" Welding and Electrical Wiring Training December 15-17, 2023 Mampang Multi-purpose hall, Mampang, Zamboanga City</p>	<p>Sector involved</p> <ul style="list-style-type: none"> • Extension Coordinator • Dean • TEO Director • BSMar.E and DMECT Program Adviser • CME faculty <p>No. of Participants from HEIs: 1- TEO 6- CME Faculty 12- CME Students 12- Residents of Barangay Mampang 2- Barangay Officials</p>
<p>CME Extension Program "MARINO Techs" Welding and Electrical Wiring Training Phase 3 (June 15 and 22, September 21 and 28, October 5 and 19, November 5, 2024)</p> <p>ZSCMST Campus</p>	<p>Sector involved</p> <ul style="list-style-type: none"> • Extension Coordinator • Dean • TEO Director • BSMar.E and DMECT Program Adviser • CME faculty <p>No. of Participants from HEIs: 1- TEO 3- CME Faculty 7- CME Students 12- Residents of Barangay Mampang</p>
<p>Maritime Week Coastal Clean - Up ZSCMST Coastal Area, ZC September 23, 2023</p>	<p>Sector Involved CME Faculty RIO personnel/staff CME students</p> <p>No. of Participants from HEIs: 35 - CME Faculty 8 - RIO personnel/staff 124 - CME students</p>
<p>Maritime Week Coastal Clean - Up ZSCMST Mangrove Area, ZC September 23, 2024</p>	<p>Sector Involved CME Faculty RIO personnel/staff CME students</p> <p>No. of Participants from HEIs: 35 - CME Faculty 1 - RIO personnel/staff 124 - CME students</p>
<p>Maritime Week Simulator Expo ZSCMST Campus B- SOLAS Bldg, ZC September 25, 2024</p>	<p>Sector Involved CME Faculty RIO personnel/staff CME students CELA Students</p> <p>No. of Participants from HEIs: 3 - CME Faculty 1 - RIO personnel/staff 10 - CME students 100 – CELA Students</p>




 Republic of the Philippines
ZAMBOANGA STATE COLLEGE OF MARINE SCIENCES & TECHNOLOGY
 Fort Pilar Shrine, Zamboanga City 7000
COLLEGE OF MARITIME EDUCATION
Tel No.: (062) 991-0647 Telefax (062) 991-0777 website: <http://www.zscmt.edu.ph> email: registrar@zscmt.edu.ph

December 14, 2023

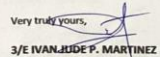
DR. JAIME G. JALON
 College President
 Zamboanga State College of Marine Sciences and Technology

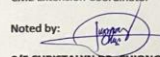
Thru: **DR. RACHEL D. LAURIAGA**
 Vice President for Academic Affairs

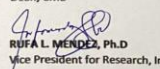
Herewith is the list of CME faculty who will be conducting the CME Extension Activity from December 15-17, 2023 in Barangay Mampang, this city. We request that the list faculty members be granted official time for this training duration.

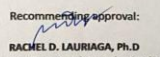
C/E Christalyn D.R. Chiong
 Mr. Marlon Omatang
 R/O Jesus Cristobal Espina
 Engr. Ronilo Jayson
 Capt. Marnette Apit
 2/M Risil Ybera
 3/E Ivan Jude Martinez


Thank you for your support.

Very truly yours,

3/E IVAN JUDE P. MARTINEZ
 CME Extension Coordinator



Noted by: 
C/E CHRISTALYN DR. CHIONG, MMM
 Dean, CME


RUFA L. MENDEZ, Ph.D
 Vice President for Research, Innovation, and Extension

Recommending approval:

RACHEL D. LAURIAGA, Ph.D
 Vice President for Academic Affairs

Approved by:
JAIME G. JALON, Ph.D
 College President


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 Republic of the Philippines
Zamboanga State College of Marine Sciences and Technology
 College of Maritime Education
 Fort Pilar, Zamboanga City
 

Mariners Advancing Regional Industries through Novel Technologies: **MARINO TECHS**
 "Enabling Marine and Maritime Communities through livelihood and Technologies"

Title of Project : Phase 2: CME-Community Extension Projects for A.Y. 2023

Proponent : 3/E Ivan Jude P. Martinez
 C/E Christaly D.R. Chiong
 Capt. Marnette Apit
 Marlon R. Omatang
 George S. Lauriaga Jr.

Location of Beneficiaries : Barangay Mampang, Zamboanga City


Date of implementation : September – December, 2023

Source of Funding : STF-Tuition and other fees

Project Cost : 140,000.00

Rationale:

Community Extension Services is an essential function of higher education institutions that derives its plans and programs for the delivery of community services from instruction and research. Conducting community extension service is about relationships in building communities through teaching. The programs and activities are geared toward helping people by empowering themselves through sustainable programs and enabling the programs to reach and "touch the lives" of communities and the environment through services that

CME DEAN  3:25PM
 10-4-23
 700 for 10/14/23

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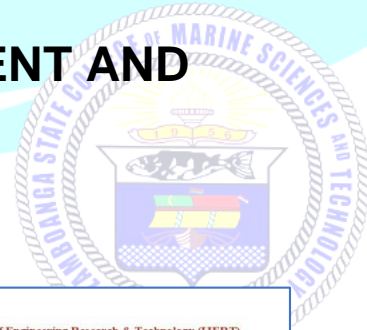
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Memo for Faculty who will attend the Extension Program at Barangay Mampang



**Certificates for facilitating Faculty on MARINO Tech Extension Program:
Welding and Wiring Training**

AWARDS OF DISTINCTION AND ACHIEVEMENT AND GRANTS OF THE PROGRAM, “BEST PRACTICES” ADOPTED



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Electrical Power Quality Improvement through Modeling and Optimization of Passive Harmonic Filter

Sina A. Sahidani
Department of Electrical Engineering, College of Engineering
Mindanao State University-IIT
Iligan City, Philippines
College of Maritime Education
Zamboanga State College of Marine Sciences and Technology
Zamboanga City, Philippines

Abstract— This paper studies on the harmonic distortion and the methods to mitigate the harmonics for a system with Load variation and different harmonic distortion level. A group of passive shunt filter are designed to reduce harmonic distortion and correct power factor. The proposed method optimize the group filter configuration which is suitable for load and distortion level variation to get best scenario out of passive harmonic filters. Maximum level for power factor as long as it is positive, consider as constraint and minimizing harmonics distortion index such as Total Harmonic Distortion (THD) and its Individual Harmonic Distortion (IHD) content are factors for objective function. Genetic Algorithm has been used as Optimization technique and software to simulate are MATLAB for genetic algorithm and ETAP for filter simulation in power system.

Keywords—Load Variation, Harmonic Distortion, Power Quality.

I. INTRODUCTION

Recently, there is an increasing concern about the environment. The need to generate pollution-free energy has triggered considerable effort toward renewable energy (RE). RE sources such as solar, wind, flowing water and biomass offer the promise of clean and abundant energy. They do not generate any greenhouse gases and are inexhaustible. Solar Power, in particular, is especially attractive for Philippines. In the era of renewable energy, wind power and solar Energy are mostly developed and matured technology around the globe. It is converted into a more convenient alternating current (AC) power through an inverter system. [1]
Advance in technology of semiconductor devices has led to a revolution in electronic technology over the past decade and have more tendency in future.
However rise in the Power Quality problem is due to power equipment which include adjustable-speed motor drives (ASDs), electronic power supplies, direct current (DC) motor drives, battery chargers, electronic ballasts. Power sources act as non-linear loads, drawing a distorted waveform that contains harmonics. These harmonics can cause problems ranging from telephone transmission interference to degradation of conductors and insulating material in motors and transformers. Therefore it is important to gauge the total effect of these harmonics [2]. Schwanz and Bollen have conducted a comprehensive review on solutions of harmonic

mitigation techniques using active and passive filters [3]. Jain and Sing estimated harmonics in modern power systems narrowing down key issues and challenges [4].
A paper presented by Adel M. Sharaff, Michael E. Fisher a novel optimization design technique for power system shunt filters to ensure harmonic reduction and noise mitigation on the electrical utility grid. The proposed filter design is based on the minimization of a composite objective function depicting the three main filter objectives of minimum harmonic current penetration into the electric grid system, maximum current absorption by the harmonic filter and minimum harmonic voltage distortion at points of common coupling.

Theory for the Design of C-type Filter by Yao XIAO, Jie ZHAO, Shijie MAO Based on the theoretical analysis, the paper introduces an algorithm for calculating the parameters of C-type filter that has not been published before. Firstly, the relationships of all parameters are established and discussed. Then, Parameters with least cost of the filter are also derived. Finally, the method is testified by the parameters of C-type filters having been used in some HVDC projects. Young-Sik Cho and Hanju Chn present how to select tuning factor and quality factor in designing of a single-tuned passive harmonic filter. Tuning factor and quality factor must be considered before a decision of filter parameters(R, L and C). Rampant rise in population, energy demand, economic growth and emissions have popularized renewable energy sources [6-7]. Flow of currents in longer HVDC and HVAC lines and overloaded distribution transformers cause line losses [8].

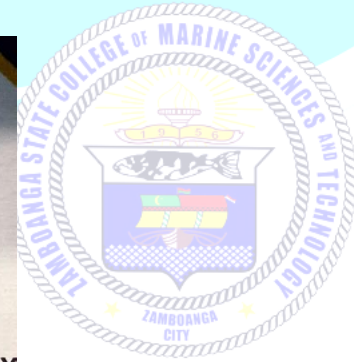
II. FILTER DESIGN

The most common type of passive filter is the single-tuned “notch” filter. This is the most economical type and is frequently sufficient for the application. The notch filter is series-tuned to present a low impedance to a particular harmonic current and is connected in shunt with the power system. Notch filters can provide power factor correction in addition to harmonic suppression. In fact, power factor correction capacitors may be used to make notch filters. The notch harmonic h notch is related to the fundamental frequency reactance by:

$$h_{\text{notch}} = \sqrt{\frac{X_c}{3X_p}} \quad (1)$$



Using of Motor Control Training Module as part of the Wiring Training Objectives which is a Research Base Invention by Engr. Sina Sahidani. The invention is now on its process for patent.



Certificate awarded to ZSCMST- CME for the conduct of Extension Services



Establish partnerships with local industries for mutual knowledge exchange.