

ACTIVITY DESIGN

Title

In-house Training and Seminar on HPLC Concept, Handling and

Troubleshooting

Participants

DoPAC Faculty and Laboratory/Chemical Technicians

Date

July 17-18, 2024 @ 8:30 AM to 5:00 PM (Wednesday and Thursday)

Venue

DoPAC Conference and Instrumentation Rooms

Rationale

The Department of Pure and Applied Chemistry has been doing research and extension activities to deliver impactful outputs relating to the university's core functions. One of these activities includes the regular conduct of trainings that require the proper handling of instruments that are valuable to the conduct of the departments research and extension.

This activity is an offshoot of CHED RQAT's recommendation to conduct training and seminars for VSU constituents. Thus, this activity will support the DoPAC and the VSU Graduate School's application for the CHED Certificate of Program Compliance (COPC) to offer MS Chemistry. Because of this, we strongly propose the conduct of an In-house training and seminar on HPLC Concept, Handling and Troubleshooting.

The proposed activity aims to (1) provide the VSU DoPAC laboratory technicians, researchers, and faculty with the knowledge in understanding key concepts in instrumentation and (2) heighten everyone's awareness of specialized laboratory instruments such as the HPLC, its concept, handling and troubleshooting for the proper conduct of research, laboratory and extension related experiments.

Moreover, as one of the academic and research units of the university, we at the Department of Pure and Applied Chemistry envision building a research and analytical facility that would cater to the university's needs as well as its stakeholders that will serve as our steppingstone to achieving the university's long-term goal.

Objectives

At the end of the training-seminar, the participants are expected to:

1. Learn the key concepts about the HPLC instrument and analysis;

Familiarize the different problems encountered in using an HPLC and how to troubleshoot such challenges; and

3. Acquire the proper skill sets in system verifications, operations, handling, and termination of experiments related to HPLC analysis.

Methodologies/Strategies

The proposed training-seminar is a 2-day activity designed for the participants to gain knowledge on the basic concept of conducting an HPLC analysis and trouble shooting. The resource speaker will present and discuss topics on (1) Concepts of HPLC Analysis; (2) HPLC



Handling, Common Problems Encountered and Trouble Shooting; (3) Hands-on experience in Operating an HPLC unit, data processing, and experiment termination. A moderator will be assigned to facilitate the open forum of each topic/discussion. Icebreakers and/or games will be given in between topics to energize the participants. The activity will be concluded with the giving of the certificates/token and professional fee for the resource person.

Resources Needed;

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A. Manpower Requirements

Overall Supervision: Allan A. Ramal

Activity Coordinators: Genesis C. Albarico

David Winston W. Tabada Mark Ryan R. Tripole

Technical Staff: Jude P. Israel
Noreve Jean M. Agad
Jane M. Abapo
Susana B. Miñoza

B. Supplies and Materials

General Description	Unit	Qty./Size
Chemical/Laboratory Supplies		
Acetaminophen 500mg (ex. Biogesic or Tylenol)	рс	25
Meclizine HCl 25mg (ex. Bonamine)	рс	25
Glacial Acetic Acid	TIS MICHOLINA	4
Methanol HPLC Grade	L	4
Ammonium Phosphate Dibasic	g	500
Phosphoric Acid	L	4
Acetonitrile HPLC grade	L	4
Distilled Water	L	20
Office Supplies		
Bond paper, A4	ream	5
Special paper, A4	pck	5
Photo Paper, A4, Matte	pck	5
ID Jacket, B4, Transparent	рс	30
Whyteboard Marker, Black	рс	24
Food and Drinks		and a large
Lunch on July 17, 2024	pax	30
AM & PM snacks July 17, 2024	pax	30
Lunch on July 18, 2024	pax	30
AM & PM snacks July 18, 2024	pax	30
Tarpaulin	рс	2

Facilities and Equipment

Facilities

DoPAC Conference Room DoPAC Instrumentation Room Internet Connection

Equipment

AV equipment (Sound System, Camera etc.)

Laptop

UHPLC

DLP Projector with screen

Expected Outcome

1. Updated DoPAC Laboratory Safety Manual

- 2. Compliant to CHED requirements for MS Chemistry Program (and BS Chemistry)
- 3. Improved Safety Protocols in DoPAC Laboratories and/or other VSU laboratories.

4. Create an instruction material for HPLC Operations and Verification.

Estimated Budget

Particulars	Cost in peso (Php)	
Meals & Refreshments		
Morning (2) and afternoon (2) snacks for 30 participants and facilitators @ Php80.00 each	9,600.00	
Sub-total	9,600.00	
Supplies and Materials		
Chemical Supplies	30,000.00	
Office Supplies	1,500.00	
Sub-total	31,500.00	
Professional fee	5,000.00 5,000.00	
Others	1,000.00 1,000.00	
ATOTAL - Floriples and L. A. Feld I Villaming, RCB - F.	47,100.00	

Prepared by:

ALLAN A. RAMAL Training Coordinator

Noted by:

HONEY SOFIA V. COLIS

Director, HRMO

Availability of funds:

ALICIA M. FLORES

Budget Officer

Recommending Approval:

ELWIN JAY V. YU

Vice President, OVPAF

Approved:

FOR PROSE IVY G. YEPES

President

PROGRAM OF ACTIVITIES

In-House Training and Seminar on HPLC Concept, Handling and Troubleshooting 17-18 July 2024 | 8:30 am

DAY/TIME	ACTIVITY	RESPONSIBLE PERSON
DAY 1 8:30 AM	Opening program	r mitupel
	Registration	Ms. Susana B. Miñoza Secretariat, DoPAC
	Prayer	Mr. Jude P. Israel, RCh Laboratory Chemist
	National Anthem	Ms. Noreve Jean M. Agad, RChT Head, Instrumentation Room
	Welcome Remarks	Mr. Mark Ryan R. Tripole, RCh Head, DoPAC
	Pre-test	Ms. Susana B. Miñoza Secretariat, DoPAC
ind Please in to	Photo Opportunity	
9:30 AM	Seminar Proper	Managara II
	Overview of the Training	Dr. Felix M. Salas, RCh Senior Faculty, DoPAC
	Level of Expectations	Dr. Felix M. Salas, RCh Senior Faculty, DoPAC
	Ice Breaker	Mr. Allan A. Ramal, RCh Senior Faculty, DoPAC
	Seminar on the Principles and Concepts of HPLC Instrumentation	Mr. Jerald Villarmino, RCh Faculty, VSU Tolosa
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	Open Forum	TarASI JA MAJA
12:00 NN	Lunch Break	a) n rerodo galans e
1:00 PM	Training Proper (Cont.)	V _j bliker.
	Demonstration on HPLC Handling, Sample Preparation and Troubleshooting	Mr. Jerald Villarmino, RCh Faculty, VSU Tolosa
5:00 PM	End of Day 1	• · · · · · · · · · · · · · · · · · · ·
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DAY/TIME	ACTIVITY	RESPONSIBLE PERSON
DAY 2 8:30 AM	Training Proper (Cont.)	
	Demonstration on HPLC Handling, Sample Preparation and Troubleshooting	Mr. Jerald Villarmino, RCh Faculty, VSU Tolosa
12:00 NN	Lunch Break	2
1:00 PM	Training Proper (Cont.)	5
	Demonstration on HPLC Handling, Sample Preparation and Troubleshooting	Mr. Jerald Villarmino, RCh Faculty, VSU Tolosa
4:30 PM	Closing Program	
	Post-Test and Training Evaluation	Ms. Susana B. Miñoza Secretariat, DoPAC
	Participants' Impression	
	Giving of Certificates	Dr. James A. Patindol, RCh Director, ARIC
	Closing Remarks	Dr. Elizabeth S. Quevedo, RCh Senior Faculty, DoPAC

(*This should include the date, time, opening, closing and the topics to be discussed)