

ด่วนที่สุด

ที่ ศธ 0604/19



วิทยาลัยสารพัดช่างอ่าง
วันที่ ๑๙.๓.๖๕
วันที่ ๒๐.๓.๖๕
เวลา ๑๓.๐๐ น.

สำนักนโยบายและแผนการอาชีวศึกษา
สำนักงานคณะกรรมการการอาชีวศึกษา
กระทรวงศึกษาธิการ กทม. 10300

19 มกราคม 2565

เรื่อง ทูลเกล้าฯ ถวายร่าง Equipping TVET Personnel with Quantitative Research Methods ของศูนย์ SEAMEO VOCTECH

เรียน ผู้อำนวยการสถาบันการอาชีวศึกษาและผู้อำนวยการสถานศึกษาในสังกัดทุกแห่ง

สิ่งที่ส่งมาด้วย 1. รายละเอียดทูลเกล้าฯ ถวายร่าง Equipping TVET Personnel with Quantitative Research Methods ของศูนย์ SEAMEO VOCTECH จำนวน 1 ชุด
2. ใบสมัครรับทุน (Training Nomination form) จำนวน 1 ชุด

ด้วยศูนย์ระดับภูมิภาคว่าด้วยเทคนิคและอาชีวศึกษาของซีมีโอ (SEAMEO Regional Centre for Vocational and Technical Education and Training: SEAMEO VOCTECH) ประเทศบรูไนดารุสซาลาม จะให้ทุนฝึกอบรมแก่บุคลากรของประเทศสมาชิก ในหัวข้อ Equipping TVET Personnel with Quantitative Research Methods ระหว่างวันที่ 21, 22, 24, 26 กุมภาพันธ์ 2565 และวันที่ 1 มีนาคม 2565 ในรูปแบบ การฝึกอบรมทางไกล ซึ่งผู้ได้รับการเสนอชื่อควรเป็นผู้ดำเนินการ รองผู้ดำเนินการ หรือผู้นำของโรงเรียน วิทยาลัย สถาบันการศึกษาและฝึกอบรมด้านเทคนิคและอาชีวศึกษา ที่รับผิดชอบเกี่ยวกับการจัดทำงานวิจัย เพื่อพัฒนาโครงการ หลักสูตร และกิจกรรมการจัดการเรียนการสอนด้านอาชีวศึกษา ตลอดจนมีความรู้พื้นฐาน ด้านการวิจัย มีอายุไม่เกิน 55 ปี และมีความรู้ความสามารถด้านทักษะการใช้ภาษาอังกฤษ คอมพิวเตอร์และ อินเทอร์เน็ตเป็นอย่างดี ทั้งนี้ ผู้สมัครรับทุนหลักสูตรข้างต้นจะต้องจัดเตรียมรายงานประเทศเพื่อนำเสนอ ในการฝึกอบรมในครั้งนี้ รายละเอียดดังสิ่งที่ส่งมาด้วย 1

สำนักนโยบายและแผนการอาชีวศึกษา จึงขอให้สถาบันการอาชีวศึกษาและสถานศึกษา ทุกแห่ง ประชาสัมพันธ์ทุนดังกล่าวให้ผู้สนใจทราบ และหากมีผู้สนใจสมัครรับทุนขอให้พิจารณาเสนอชื่อ ผู้มีคุณสมบัติเหมาะสม จำนวน 1 ราย โดยส่งใบสมัคร (Training Nomination Form) ตามสิ่งที่ส่งมาด้วย 2 มาที่สำนักนโยบายและแผนการอาชีวศึกษา ภายในวันที่ 26 มกราคม 2565

เรียนผู้อำนวยการ

- เพื่อพิจารณา
- นวัตกรรม 7 ค.ย.
- นวัตกรรม ๗ ค.ย. มคอ. ๖

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เรียน ผู้อำนวยการ
ด้วย สำนักนโยบายและ
แผนฯ ๑ หรือผู้อำนวยการศูนย์
ฝึกอบรมเกี่ยวกับโครงการ
วิจัย สามารถสมัครได้ภายใน
วันที่ ๒๖ ม.ค. ๖๕
เพื่อไม่พลาด
๒๐.๓.๖๕

จึงเรียนมาเพื่อทราบและประชาสัมพันธ์ให้บุคลากรในสังกัดทราบต่อไปด้วย

สธ ๐๖๐๔/๑๙

๑. ไม่ไปรอทราบ

๒. เห็นสมควรส่งร่าง ๗ ค.ย.

๓. เห็นสมควรส่งร่าง มคอ. ๖

ขอแสดงความนับถือ

(นางสุรพร สังข์อ่อน)

นักวิเคราะห์นโยบายและแผนชำนาญการพิเศษ รักษาการฯ

ผู้อำนวยการสำนักนโยบายและแผนการอาชีวศึกษา/ทพ.

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๑. (๑๐) ค.ย.

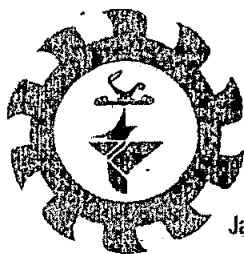
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กลุ่มยุทธศาสตร์การอาชีวศึกษาต่างประเทศและวิเทศสัมพันธ์

โทร. 0 2026 5555 ต่อ 3012

โทรสาร 0 2280 1252



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SEAMEO VOTTECH

Southeast Asian Ministries of Education Organisation

REGIONAL CENTRE FOR VOCATIONAL AND TECHNICAL EDUCATION AND TRAINING

Jalan Pasar Baharu, Gadong BE1318, Brunei Darussalam. Tel: +673-2447992 / 80 / 81 Fax: +673-2447955
Email: info@vottech.edu.bn Web: www.vottech.org

สำนักงานส่งเสริมต่างประเทศ
52
วันที่ 11 มี.ค. 2565
เวลา 10.15
สำนักงานปลัดกระทรวงศึกษาธิการ

Ref: SV/T/RTP-2122/2 [07]

06 January 2022

HER EXCELLENCY MS TREENUCH THIENTHONG

Minister of Education

Ministry of Education

Ratchadamnoen Nok Road

Dusit, Bangkok 10300

THAILAND

Your Excellency,

**SCHOLARSHIP OFFERING FOR THE VIRTUAL REGIONAL TRAINING PROGRAMME ON
EQUIPPING TVET PERSONNEL WITH QUANTITATIVE RESEARCH METHODS
21, 22, 24, 26 FEBRUARY AND 1 MARCH 2022**

Greetings from SEAMEO VOTTECH Regional Centre for Vocational and Technical Education and Training, Brunei Darussalam!

We are pleased to announce that we will be conducting the Virtual Regional Training Programme on "EQUIPPING TVET PERSONNEL WITH QUANTITATIVE RESEARCH METHODS", on 21, 22, 24, 26 February and 1 March 2022. Recognising the limitations imposed by the COVID-19 pandemic, SEAMEO VOTTECH has planned and developed this virtually held Regional Training Programme to provide the participants with the necessary knowledge and skills on how to conduct quantitative research and how to use the research findings for improving their decision-making processes and their practices. The programme will focus on enhancing the capacity of TVET personnel on (1) how to read and understand research report, (2) how to generate ideas from research findings and recommendations for improving TVET programmes and teaching-learning processes, (3) various ways of conducting quantitative research focusing on survey and experiment, and (4) writing quantitative research proposal or action plan.

The virtual training starts with compulsory 4-hour online knowledge and input discussion sessions per day, followed by self-working phases.

We, therefore, would like to offer scholarship for two (2) participants. The following criteria may be used in the selection of the participants:

- Target Participants are Principals, Vice-Principals, /Directors and Vice Directors, Heads of TVET Schools/colleges/institutions and departments;
- The candidates need to have sufficient internet access, laptops with camera and microphone for an interactive training and be able to attend the whole training;

...2/

- *Participants must have at least basic background knowledge on the above said course;*
- *Good command of English; and*
- *IT literate.*

Enclosed are the **Workshop Outline (Appendix 1)** and the **Training Nomination Form (Appendix 2)** to be filled-up by the nominee(s). We will appreciate it very much if the completed form to be sent by email to: training@voctech.edu.bn or rusiah.kawang@voctech.edu.bn by **10 February 2022**.

We reiterate to Your Excellency of our Centre's commitment in the implementation of our human resources development mission. We also wish to express our sincere thanks and appreciation on Your Excellency's continuous support to our programmes.

Thank you and warm regards.

PREPARING TVET FOR INDUSTRY 4.0

Yours sincerely,



[PG HJ MOHAMAD SUFRI BIN PG ALI]

Acting Director

SEAMEO VOTTECH Regional Centre



Course Outline

Virtual Regional Training Programme on Equipping TVET Personnel with Quantitative Research Methods 21, 22, 24, 26 February & 1 March 2022

Rationale

In today's world, Technical and Vocational Education and Training (TVET) personnel are faced with complex educational issues and challenges due to globalization, fast changing technology and industry, and the shift from industrial to knowledge-based society. In this era, TVET personnel must be able to continuously observe, study, and describe the industry processes so that TVET curriculum can reflect to these requirements. In this knowledge-based society, TVET providers and personnel should have these 4 pillars: innovativeness, openness, and the capacity to bring multi-level perspectives to bear on the provision of solutions to the many challenges faced by our societies (European Commission, 2008 & 2018). This requires policymakers to look in new ways at how we should equip ourselves with research skills and how we use the results of research in policymaking and TVET practitioners to continuously improve their practices.

In order to continuously improve the policies and practices that will enhance organisational performance, leaders, policymakers, and practitioners must have innovative ideas (George, 2008). Being innovative means creating something new or different that offers the best for the organization. Business as usual or following what others are doing is no longer appropriate in this era. Critical thinking through examining the current practices and predicting the future trends are needed. This can be achieved by having, among others, research skills. Being systematic and scientific may help the process of policymaking and development of best practices.

This training is prepared for TVET personnel and meant for providing necessary knowledge and skills on how to conduct quantitative research and how to use the research findings for improving their decision-making processes and their practices.

More specifically, this training programme is focused on enhancing the capacity of TVET personnel on (1) how to read and understand research report, (2) how to generate ideas from research findings and recommendations for improving teaching-learning, (3) various ways of conducting quantitative research focusing on survey and experiment, and (4) writing quantitative research proposal or action plan.

APPENDIX 1



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Objectives

The main objective of the course is to enhance the knowledge and skills of the participants in quantitative research, particularly on how to use the research findings and to conduct quantitative research for improving TVET programmes and teaching-learning.

Specifically, the course will enable the participants to:

1. Explain the importance of research for TVET managers and teachers.
2. Describe different types of research.
3. Explain the process in improving TVET programmes, curriculum and teaching-learning through research.
4. Explain the difference between descriptive and inferential statistics.
5. Explain data collection tools in quantitative research, sampling techniques and differentiate different scales of measurement.
6. Select appropriate data analysis techniques based on the research objectives and the characteristics of the data.
7. Explain data analysis using MS Excel or SPSS if preferred (a brief overview of descriptive and inferential analysis will be shared and discussed)
8. Interpret the findings from data analysis.
9. Write the proposal or an action plan of improving teaching-learning through research.

Contents

1. The importance of research for TVET managers and teachers

This session will discuss why research and how research contribute to improvement in TVET programmes, curriculum and teaching-learning.

2. Overview of different types of research

This session will provide an overview of different kind of research briefly so that the participants have awareness of where the quantitative methods belong. Some examples of research reports will be discussed.

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3. Process of improving TVET programmes, curriculum and teaching-learning through research

The participants will learn how research will be able to help improve the relevancy of TVET programmes, curriculum, and help the quality of teaching-learning processes. This session will also discuss how to generate ideas from research findings and recommendations for improving TVET programmes and teaching-learning processes.

4. Descriptive vs. Inferential statistics

To provide an overview of data analysis, the participants will be introduced to two types of statistical analyses: descriptive and inferential statistics.

5. Data Collection Tools, Sampling, and Scales of measurement

During this session each participant will be briefed on data collection tools commonly used in quantitative research and different levels of measurement scales, i.e. nominal, ordinal, interval, and ratio. This understanding is very important in data analysis. In addition, participants will also discuss the sampling techniques.

6. Selection of data analysis techniques

Referring to various factors including the objectives of research and characteristics of the data, this session will elaborate the decision-making process in selecting appropriate data analyses.

7. Overview of data analysis using MS Excel or SPSS

This session will provide participants an overview of data analysis using MS Excel or SPSS. The facilitator will also demonstrate how to use various commonly used features in MS Excel or SPSS. A brief overview of descriptive and inferential analysis will be demonstrated and discussed.

8. Interpretation of findings from data analysis

Based on the findings from data analyses, this session will elaborate interpret the findings for general audiences.

9. Writing and presenting an action plan

In this session, the participants will develop an action plan and present it in the plenary for comments.

Duration

APPENDIX 1



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This course will run for five (05) days. It is schedule to be held from 21, 22, 24, 26 February & 1 March 2022.

Delivery Method

The training will be delivered online using mixed approaches or techniques, such as brainstorming participants' experiences and ideas, followed by presentation/s of the resource persons and discussions. There will be hands-on exercises on how conduct institutional research and to write research proposal followed by presentations.

Expected Output

At the end of the course, participants will have knowledge and skills in quantitative research and able to use the experience to improve TVET programmes, curriculum, and teaching-learning.

Target Participants

The participants of the training programme are TVET administrators, teachers, and researchers assigned to conduct research to improve TVET programmes, curriculum, and/or teaching-learning activities. Preferably, they should have basic knowledge in research and computer skills: understanding basic quantitative research and having working computer knowledge and skills, e.g. computer applications on MSWord, Excel, and PowerPoint.

Course Requirements

The participants are required to:

1. submit a country paper. For more information, please refer to the *Appendix 3: Guidelines for Preparing a Country Paper*.
2. bring along samples of research projects and/or implementation and ways of evaluating the effectiveness of the TVET programmes and teaching learning processes.

APPENDIX 1



SEAMEO VOTTECH

Course Coordinator

For further inquiries, please contact the Course Coordinator:

DR PARYONO

Research Specialist / Research Manager

Deputy Director for Professional Affairs

SEAMEO VOTTECH Regional Centre, Jalan Pasar Baharu, Gadong BE 1318

Brunei Darussalam

Tel No. : +(673) 244 7992 ext 401; +(673) 8907963

Fax No. : +(673) 244 7955

Email Add. : paryono@vottech.edu.bn



TRAINING NOMINATION FORM

Virtual Regional Training Programme on EQUIPPING TVET PERSONNEL WITH QUANTITATIVE RESEARCH METHODS 21,22, 24 26, Feb & 1 Mar 2022

(Please submit the application form in word file and send it on or before the deadline to
training@vottech.edu.bn or rusiah.kawang@vottech.edu.bn Thank you!)

1. PERSONAL & PROFESSIONAL INFORMATION

TITLE	Click or tap here to enter text eg MS / MR / DR
NAME:	Click or tap here to enter text. NOTE: As it appears on Participants National ID or Passport and underline your SURNAME
IDENTIFICATION CARD NO.	Click or tap here to enter text. Eg. National ID / SSS / KTP / MyKad
DATE OF BIRTH:	Click or tap here to enter text
E- MAIL:	Click or tap here to enter text
TELEPHONE/MOBILE:	Click or tap here to enter text
COUNTRY:	Choose an item.
OFFICE ADDRESS:	Click or tap here to enter text
POSITION:	Click or tap here to enter text e.g. Teacher Mechatronics
ORGANISATION:	Click or tap here to enter text e.g. SEAMEO VOTTECH
FIELD OF EXPERTISE:	Click or tap here to enter text. e.g. Mechatronics, PLC
YEARS OF EXPERIENCE:	Click or tap here to enter text. e.g. 5 Years
QUALIFICATIONS:	Click or tap here to enter text. e.g. Bachelor's degree Mechatronics, e.g. Master's degree Mechatronics e.g. Certificates. e.g. Short training Courses, e.g. Trainings in related fields



TRAINING NOMINATION FORM

2. LEVEL OF COMPETENCY IN THE MODULE PERQUISITE

No competence	Normal competence	Very High competence
Competence in the general field of Leadership		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Competence in the leadership development		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Competence in vocational education and training for industry		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. PLEASE INSERT A PICTURE OF YOURS BELOW

APPENDIX 3



GUIDELINES FOR PREPARING A COUNTRY PAPER

PURPOSE OF COUNTRY PAPER

The participants of the Regional Training Programme who are on SEAMEO VOTTECH Scholarships and Subsidised are required to present a Country Paper. The purpose of the Country Paper Presentation is to introduce each country's education system, its practices, issues and challenges, and future directions, to their counterparts from the other countries. SEAMEO VOTTECH considers this sharing session as one of the best learning experiences the participants will encounter in the programme.

SCOPE

In preparing the country paper, the following guideline must be followed.

1. **Title Page** (*title of the paper, country, author(s), and date*)
2. **Abstract** (*not more than 200 words*)
3. **Contents / Topics:**
 - 3.1 Country Profile
 - 3.2 Education System
 - 3.2.1 General Structure of the Education System
 - 3.2.2 Structure of TVET System (if any)
 - 3.3 Relevant Data. *Note: The data can be presented under other topics as support information.*
 - 3.4 Current Status of Curriculum in education in your country
 - 3.5 Current Practices, Major Issues and Challenges, and Future Directions
 - 3.6 Others, if any (*to be specified in the Course Outline*)
4. **References** (*indicate the sources of information*)

FORMAT

The format of the country paper must follow the specifications given below:

- | | | |
|-------------------------------|---|---|
| Content Font | : | Century Gothic, Font size: 12, Spacing: single, Paragraph Spacing: double |
| Main Title and Sub-Title Font | : | The author is free to choose the font and the font size. |
| Length | : | Maximum 10 pages of A4 paper including properly labelled figures and tables |
| Margins | : | 1" all sides with justification |

SUBMISSION PREFERENCE

Submission of the country paper (preferably softcopy) in MS Word and MS Powerpoint could be sent through the email address: training@vottech.edu.bn.