Regular Course on

Clinical Supervision in Mathematics Education

for School Principals and Supervisors

Yogyakarta, 8 – 21 October 2025

FOREWORD

SEAMEO Regional Centre for Quality Improvement of Teachers and Education Personnel in Mathematics (SEAQiM) is a centre under the Southeast Asian Ministers of Education Organization (SEAMEO), launched on July 13, 2009. SEAQiM deals with developing capacity building for mathematics teachers and education personnel (supervisors, headmasters, and administration staff).

In line with its commitment to improving the quality of mathematics teachers and education personnel in Southeast Asia, the centre will conduct a Regular Course on Clinical Supervision in Mathematics Education for School Principals and Supervisors from 8 to 21 October 2025.

This guidebook provides brief information on the objectives, program structures, course syllabus, schedule, participants, committee, and training facilitators. We hope you enjoy the course and be actively involved in all course programmes.

Yogyakarta, October 2025
Director

Dr. Sri Wulandari Danoebroto
NIP 197310082002122001

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SEAMEO Regional Centre for QITEP in Mathematics

Vision

To be a centre of professional leadership in the area of mathematics education for teachers and education personnel within the framework of sustainability.

Mission

To provide quality professional mathematics education and services for teachers and education personnel in SEAMEO Member Countries.

Values

1. Innovation
2. Professionalism
3. Service Quality
4. Global thinking
5. Inspirational Leadership

Motto

"Learning Mathematics Joyfully and Meaningfully"

Goals

1. To provide high quality education relevant to 21st century skill teaching capability
2. To establish extensive networks and collaboration, information exchange and best practice sharing in the area of mathematics education among SEAMEO Member Countries
3. To conduct research and development in mathematics education
4. To provide intellectual forums on mathematics education innovation
5. To provide policy maker with up-to-date data and information on mathematics education

Regular Course on Clinical Supervision in Mathematics Education for School Principals and Supervisors

Introduction

Clinical supervision in mathematics education is a structured and systematic process that emphasizes reflective practice as a means of enhancing instructional quality and improving student learning outcomes in mathematics. Through collaborative reflection, focused classroom observation, and constructive feedback, clinical supervision provides mathematics teachers with opportunities to critically examine and refine their instructional approaches. Its essential characteristics include:

1. A focus on classroom practice, where the "clinic" is the teaching–learning environment.
2. The role of the supervisor—whether a principal, senior teacher, or instructional coach—is that of a colleague and professional coach rather than an evaluator.
3. The primary aim is to promote teachers' professional growth and to foster improved student achievement.

Clinical supervision is most often implemented by teacher educators, instructional supervisors, or school leaders (such as heads of department or principals) to support mathematics teachers in their professional development. Fundamentally, it is a professional partnership in which teachers and supervisors collaborate to strengthen instructional practices, address misconceptions, and advance students' mathematical understanding.

Within the Course on Clinical Supervision in Mathematics Education for Principals and Supervisors, a range of topics is offered to develop knowledge and skills that enable teachers and supervisors to establish such professional partnerships and to utilize clinical supervision as a tool for continuous instructional improvement.

Regulation Base for Conducting the Training

The course is an activity funded by the Government of Indonesia through *DIPA Biro Perencanaan dan Kerjasama Nomor DIPA-138.01.1.693186/2025 tanggal 10 Februari 2025 Tahun Anggaran 2025*. It is carried out based on the Director of SEAMEO QITEP in Mathematics Decree about the Regular Course on Clinical Supervision in Mathematics Education for School Principals and Supervisors No *599.1/QiM.1.1/SK.1/2025 tanggal 8 September 2025.*

Objectives

The aims of the course are as follows:
1. to demonstrate foundational knowledge of mathematics instruction;
2. to design a comprehensive supervision program;
3. to conduct clinical supervision effectively.

Outputs

By the end of the program, participants will be able to:

  a. **Demonstrate foundational knowledge of mathematics instruction**, including effective teaching methods for specific mathematical topics and the role of clinical supervision in enhancing mathematics education.
  b. **Design a comprehensive supervision program**, including appropriate instruments for the pre-observation, observation, and post-observation phases of clinical supervision in mathematics classrooms.
  c. **Conduct clinical supervision effectively**, applying strategies to observe, assess, and support mathematics instruction with the goal of improving teaching practices and student learning outcomes.

Date, Time, and Venue

Date   : 8 – 21 October 2025
Time   : 08.00 – 14.30 (GMT + 7) for synchronous sessions

Learning Mode

The course will be delivered online, combining both synchronous sessions (real-time interaction) and asynchronous components (self-paced learning activities). This online course consists of 100 learning hours, each session lasting 45 minutes.

The learning is divided into:
- 64 hours of synchronous training (live, instructor/ facilitator-led)
- 36 hours of asynchronous training (self-paced)

The course follows an "In – On – In" model, designed to blend theory with practical application:

a. In the Job Training (Synchronous)

Participants begin with live sessions focused on foundational knowledge and guided practice.

b. On the Job Training (Asynchronous)

Learners then apply what they've learned directly in their work environment, completing tasks independently at their own pace.

c. In the Job Training (Synchronous)

Finally, participants return to live sessions to present and reflect on their experiences, share outcomes, and receive feedback.

Rights

All participants are given course materials under conditions applied by the facilitators and the Centre. Eligible participants will be awarded e-certificates.

Obligation

All participants are expected to:
1. attend all classes (synchronous and asynchronous) and be present 10 minutes before the session start;
2. fill in the attendance list in every day;
3. actively participate in the session.

Certificate Eligibility

Eligible participants will receive e-certificates upon meeting the following requirements: a minimum of 70% attendance in synchronous sessions, including sessions of Presentation of the Implementation Report, and submission of all required tasks.

Programme Structure

TOPICS	Total Hours
GENERAL COMPONENTS	
a. Introduction to SEAMEO	1
b. Current Issues in Mathematics Education	3
Core Components	
a. Reflective Practice in Math Education: Clinical Supervision Insights	2
b. Academic Supervision	3
c. Clinical Supervision	10

d. Basic Knowledge of Mathematics Instructions (BKMI)
 	
    a. Mathematical Content Knowledge
    b. Pedagogical Content Knowledge
    c. Pedagogical Knowledge
    d. Knowledge of Assessment
Knowledge of Learners
	22

e. Clinical Supervision in Mathematics Learning (CSML) a. Developing Supervision Instruments Case Study of CS in Mathematics classroom	10
f. Simulation of Clinical Supervision	
g. Implementing CS in School Orientation	1

h.   a. Planning (5)
    b. Observation (2)
    c. After Observation: Reflection, Share observation data, Feedback (2)
Writing Report & Prepare Presentation (12)
	21

i. Presentation of the implementation report	12
j. ICT Utilization in Improving Supervisor Competence	6
k. School Action Research	5

	TOPICS	Total Hours
SUPPORTING COMPONENTS		
a.	Pre- and Post-test	2
b.	Action Plan	2
TOTAL		**100**

Personal List

1. Participants

The participant consists of 30 school principals and supervisors from Southeast Asia as follows:

No.	Name	Institution	Province	Country
1	Mrs. Ngoy Ratin	Preah Bat Samdach Preach Borom Neat Norodom Sihamoni General and Technical High School	Phnom Penh	Cambodia
2	Mr Soe Thura Min	Basic Education High School (Branch) Lay Eain Korse, Dadaye Town, Ayeyarwady Region, Myanmar	Ayeyarwady Region	Myanmar
3	Ms. Nguyen Thi Hong Van	Doan Thi Diem School	Ho Chi Minh City	Vietnam
4	Ms Jusmawiah binti Jusoh	SMK (P) Jalan lpoh, Kuala Lumpur, Malaysia	Kuala Lumpur	Malaysia
5	Dr. Jittayanutipan Pattanadhammavrin, Ph.D.ED.	Ban Bok Nonrieng School	Bangkok	Thailand
6	Dr. Jojiemar M. Obligar	City Schools Division Tanauan	Batangas	Philippines
7	Adriantho Benny Pasaribu	SMP Negeri 4 Binjai	Sumatera Utara	Indonesia
8	Agus Setio	SMPN 1 Tirtoyudo	Jawa Timur	Indonesia
9	Amelina Janani	SD Alfa Centauri	Jawa Barat	Indonesia

No.	Name	Institution	Province	Country
10	Anindhyta Putri Pradipta	SD Labschool UNNES	Jawa Tengah	Indonesia
11	Devi Mardhiyanti	SMAN Sumatera Selatan	Sumatera Selatan	Indonesia
12	Erni Sutrasari	SMP Paramount	Sumatera Selatan	Indonesia
13	Farida Sri Indratini	SDN 217 Sarijadi	Jawa Barat	Indonesia
14	Fitrianita Utami	SDN Kuningan 03	Jawa Tengah	Indonesia
15	Fitry Aprilyanty	SMP Islam ASB Miftahul Ulum	Jawa Barat	Indonesia
16	Husnul Khotimah	SMP IT Nurul Qolbi	Jawa Barat	Indonesia
17	Irvan Yulidar	SMP Islam Alhamidiyah	Jawa Barat	Indonesia
18	Khairina Lubis	SMA N 1 Meranti	Sumatera Utara	Indonesia
19	Linda Nurmasari	Dinas Pendidikan dan Kebudayaan Kabupaten Sragen	Jawa Tengah	Indonesia
20	Marliani	SDN Kuin Cerucuk 4	Kalimantan Selatan	Indonesia
21	MM. Yunika Nugraheni	BPK Penabur Jakarta	DKI Jakarta	Indonesia
22	Mukhlisatun Muayanah	SDN Watukenongo 1	Jawa Timur	Indonesia
23	Musriah	SD Negeri 5 Pengadegan	Jawa Tengah	Indonesia
24	Ninien Rochmawati S.	SMAI Nurul Fikri Serang	Banten	Indonesia
25	Novalia Ariska	SD Sequoia Nasional Plus	Jawa Barat	Indonesia
26	Nurrahmi	SD Negeri 66 Banda Aceh	Aceh	Indonesia
27	Riska Merita	SMP Negeri Karang Dapo	Sumatera Selatan	Indonesia
28	Santun Butar Butar	SMP Patmos	DKI Jakarta	Indonesia
29	Suwarno	MTsN 3 Purbalingga	Jawa Tengah	Indonesia
30	Tantan Sutandi Nugraha	SMP Negeri 3 Lakbok	Jawa Barat	Indonesia

2. Facilitators

No	Name	Institution
1	Dr. Sri Wulandari Danoebroto	SEAMEO Regional Centre for QITEP in Mathematics
2	Dra. Puji Iryanti, M.Sc.Ed.	SEAMEO Regional Centre for QITEP in Mathematics
3	Prof. Berinderjet Kaur	NIE – Singapore
3	Dr. Sumardyono	BBGTK DIY
4	Dr. Marfuah	BBGTK DIY
5	Wiworo, S.Si., M.M.	BBGTK DIY
6	Dr. Sumaryanta	BBGTK DIY
7	Dr. Aan Fardani Ubaidillah	Universitas Negeri Malang
8	Dr. Cepi Syafrudin	Universitas Negeri Yogyakarta
9	Russasmita Sri Padmi, M.Sc.	Johannes Kepler University Linz, Austria

3. Committee

No	Name	Email
1	Agus Limbang Wardani	alwardani@gmail.com
2	Tri Nugroho	nugrohotri696@gmail.com
3	Hani Puspita Sari	hanipuspitas@gmail.com
4	Eko Nugroho	ekonugroho@seameo.id
5	Rini Handayani	handayani_rinie@yahoo.co.id

Dress Code

- Participants are required to wear proper and comfortable clothing throughout the training.

Tentative Schedule

No.	Week 1 (GMT + 7)	Wed, 8 Oct 2025	Thurs, 9 Oct 2025	Fri, 10 Oct 2025	Sat, 11 Oct 2025	Mon, 13 Oct 2025	Tues, 14 Oct 2025
	07.30- 08.00	Pre-test (async)					
1	08.00 - 08.45	Pre-test (async) / Opening Ceremony (Committee)	Academic Supervision (Dr. Aan Fardani Ubaidillah)	Clinical Supervision (Dr. Cepi Syafrudin)	BKMI: Pedagogical Knowledge (Dr. Marfuah)	BKMI: Knowledge of Assessment (Dr. Sumaryanta)	CSML: Developing Supervision Instruments (Prof. Berinderjeet Kaur)
2	08.45 - 09.30	Introduction to SEAMEO (Puji Iryanti)					
3	09.30 - 10.15	Current Trends in Mathematics Education (Dr. Sri Wulandari D)					
	10.15 - 10.30	Break					
4	10.30 - 11.15	Current Trends in Mathematics Education (Dr. Sri Wulandari D)	BKMI: Mathematical Content Knowledge (Dr. Sumardyono)	Clinical Supervision (Dr. Cepi Syafrudin)	BKMI: Pedagogical Content Knowledge (Wiworo M.Si.)	BKMI: Knowledge of Learners (Wiworo, M.Si)	CSML: Case Study of CS in Math Edu (Prof. Berinderjeet Kaur)
5	11.15 - 12.00						
	12.00 - 13.00	Break					
6	13.00 - 13.45	Reflective Practice in Math Education (Puji Iryanti)	BKMI: Mathematical Content Knowledge (Dr. Sumardyono)	Clinical Supervision (Dr. Cepi Syafrudin)	BKMI: Pedagogical Content Knowledge (Wiworo M.Si.)	BKMI: Knowledge of Learners (Wiworo, M.Si)	CSML: Case Study of CS in Math Edu (Prof. Berinderjeet Kaur)
7	13.45 - 14.30		BKMI: Mathematical Content Knowledge (asyn1, 2)		BKMI: Pedagogical Content Knowledge (Asyn1, 2)	BKMI: Knowledge of Assessment (asyn1)	CSML: Developing Supervision Instruments (asyn1)
8	14.30 - 15.15					BKMI: Knowledge of Learners (asyn1)	
9	15.15 - 16.00			Clinical Supervision (asyn1, 2, 3)	BKMI: Pedagogical Knowledge (asyn1)		
10	16.00 - 16.45				Concept of Clinical Supervision (asyn4)		

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No.	Week 2 (GMT + 7)	Wed, 15 Oct 2025	Thurs, 16 Oct 2025	Fri, 17 Oct 2025	Sat, 18 Oct 2025	Mon, 20 Oct 2025	Tues, 21 Oct 2025
1	08.00 - 08.45	CSML: Simulation of CS in Math Classroom (Puji Iryanti)	School Action Research (Dr. Sri Wulandari)	Implementing CS in School: Planning (Asyn4, 5)	Implementing CS in School: Writing Report & preparing presentation (Async13, 14, 15)	Implementing CS in School: Presentation of Implementation Report (Dr. Aan Fardani Ubaidillah, Dr. Cepi Syafrudin, Puji Iryanti)	Postest (Async)
2	08.45 - 09.30						Action Plan (Puji Iryanti)
3	09.30 - 10.15		Implementing CS in School: Orientation (Puji Iryanti)	Implementing CS in School: Observation (Asyn6)			
	10.15 - 10.30	Break					
4	10.30 - 11.15	School Action Research (Dr. Sri Wulandari)	School Action Research (Asyn1)	Implementing CS in School: Observation (Asyn7)	Implementing CS in School: Writing Report & prepare presentation (Async16, 17)	Cont': Implementing CS in School: Presentation of Implementation Report	Closing Ceremony (Committee)
5	11.15 - 12.00		Implementing CS in School: Planning (Asyn1)	Implementing CS in School: After Observation (Asyn8)			
	12.00 - 13.00	Break					
6	13.00 - 13.45	ICT (Russasmita Sri Padmi, M.Sc.)	ICT (Russasmita Sri Padmi, M.Sc.)	Implementing CS in School: After Observation (Asyn9, 10, 11, 12)	Implementing CS in School: Writing Report & preparing presentation (Async18, 19, 20, 21)	ICT (Russasmita Sri Padmi, M.Sc.)	
7	13.45 - 14.30						
8	14.30 - 15.15		Implementing CS in School: Planning (Asyn2, 3)				
9	15.15 - 16.00						

BUKU PANDUAN

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