



香港資優教育學苑

The Hong Kong Academy for Gifted Education

香港特別行政區政府教育局資助

Subvented by the Education Bureau, the Government of the HKSAR



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S3IM0001C

(Token- required)

[**Gifted Programme**]

CGMO Training Course

CGMO Training 2025 (Phase III)

Instructor from International Mathematical Olympiad
Hong Kong Committee Limited



**For students
recommended by the
International
Mathematical Olympiad
Hong Kong Committee
Limited ONLY**

Intended Learning Outcomes

Upon completion of the gifted programme, gifted students should be able to:

1. broaden mathematical knowledge in a variety of areas on the basis of senior secondary mathematics curriculum
2. strengthen the problem solving and higher-order thinking skills
3. learn more about the scope of International Mathematical Olympiad Training

◆ Gifted Programme Introduction

- An introductory to advanced level comprehensive mathematics programme which covers a wide range of topics
- Broaden students' mathematical knowledge and strengthen their problem-solving skills
- Consists of 3 phases
- Outstanding students in the programme will represent Hong Kong in China Girls Mathematical Olympiad (CGMO) 2025 held in summer

This programme is co-organized with International Mathematical Olympiad Hong Kong Committee Limited (IMOHKCL)

◆ Schedule

| Session | Date | Time | Venue |
|---------|--------------|-----------------------|-----------------|
| 1 | 23 July 2025 | 9:00 a.m. – 1:00 p.m. | Room 204, HKAGE |
| 2 | 23 July 2025 | 2:00 p.m. – 6:00 p.m. | |
| 3 | 25 July 2025 | 9:00 a.m. – 1:00 p.m. | |
| 4 | 25 July 2025 | 2:00 p.m. – 6:00 p.m. | |
| 5 | 28 July 2025 | 9:00 a.m. – 1:00 p.m. | |
| 6 | 28 July 2025 | 2:00 p.m. – 6:00 p.m. | |
| 7 | 30 July 2025 | 9:00 a.m. – 1:00 p.m. | |
| 8 | 30 July 2025 | 2:00 p.m. – 6:00 p.m. | |
| 9 | 1 Aug 2025 | 9:00 a.m. – 1:00 p.m. | |
| 10 | 1 Aug 2025 | 2:00 p.m. – 6:00 p.m. | |
| 11 | 4 Aug 2025 | 9:00 a.m. – 1:00 p.m. | |
| 12 | 4 Aug 2025 | 2:00 p.m. – 6:00 p.m. | |
| 13 | 6 Aug 2025 | 9:00 a.m. – 1:00 p.m. | |
| 14 | 6 Aug 2025 | 2:00 p.m. – 6:00 p.m. | |
| 15 | 8 Aug 2025 | 9:00 a.m. – 1:00 p.m. | |
| 16 | 8 Aug 2025 | 2:00 p.m. – 6:00 p.m. | |



◆ Suitable for

- Student who have completed CGMO Training 2025 (Phase II) (S2IM0001C) and recommended by the International Mathematical Olympiad Hong Kong Committee Limited ONLY

◆ Medium of Instruction

Cantonese with English handouts

◆ Certificate

E-Certificate will be awarded to gifted students who have:

- Attended and completed CGMO 2025 scheduled from 10 Aug to 15 Aug 2025.

◆ Appendix - IMO-related Programmes

- IMO-related programmes is a series of programmes that provide International Mathematical Olympiad (IMO) related training. It aims to equip students with the mathematics knowledge and curriculum of IMO, problem solving skills, and high-order thinking skills progressively.
- There are different enrollment methods, e.g. aptitude test. For details, please refer to each programme's poster

Level I

Maths Ignition (MI) Programmes

- For S1-S3 HKAGE student members
- Introductory training in Mathematical Olympiad by topics
- Application for five MI programmes will be open in Apr, Jul & Oct each year
- Enroll through aptitude test

Level I to II

Introduction to Olympiad Mathematics (ITOM)

- For S1-S6 HKAGE student members
- Two phases of training
- Application will be open in Jan each year
- Enroll through aptitude test; OR
- Students who attained (a) distinction in 2 MI courses; OR (b) merit or above in 3 MI courses; OR (c) completion or above in 4 MI courses could enroll directly

Level I to III

China Girls' Mathematical Olympiad

- For S1-S6 HKAGE female HKAGE student members
- Three phases of training
- Application will be open in Jan each year
- Enroll through aptitude test; OR
- Students who have completed any phase of IMO/CGMO/ITOM Training in the past two years could enroll directly
- CGMO HK Team members will be selected based on their performance in the trainings

Level III to IV

International Mathematical Olympiad (IMO) Trainings*

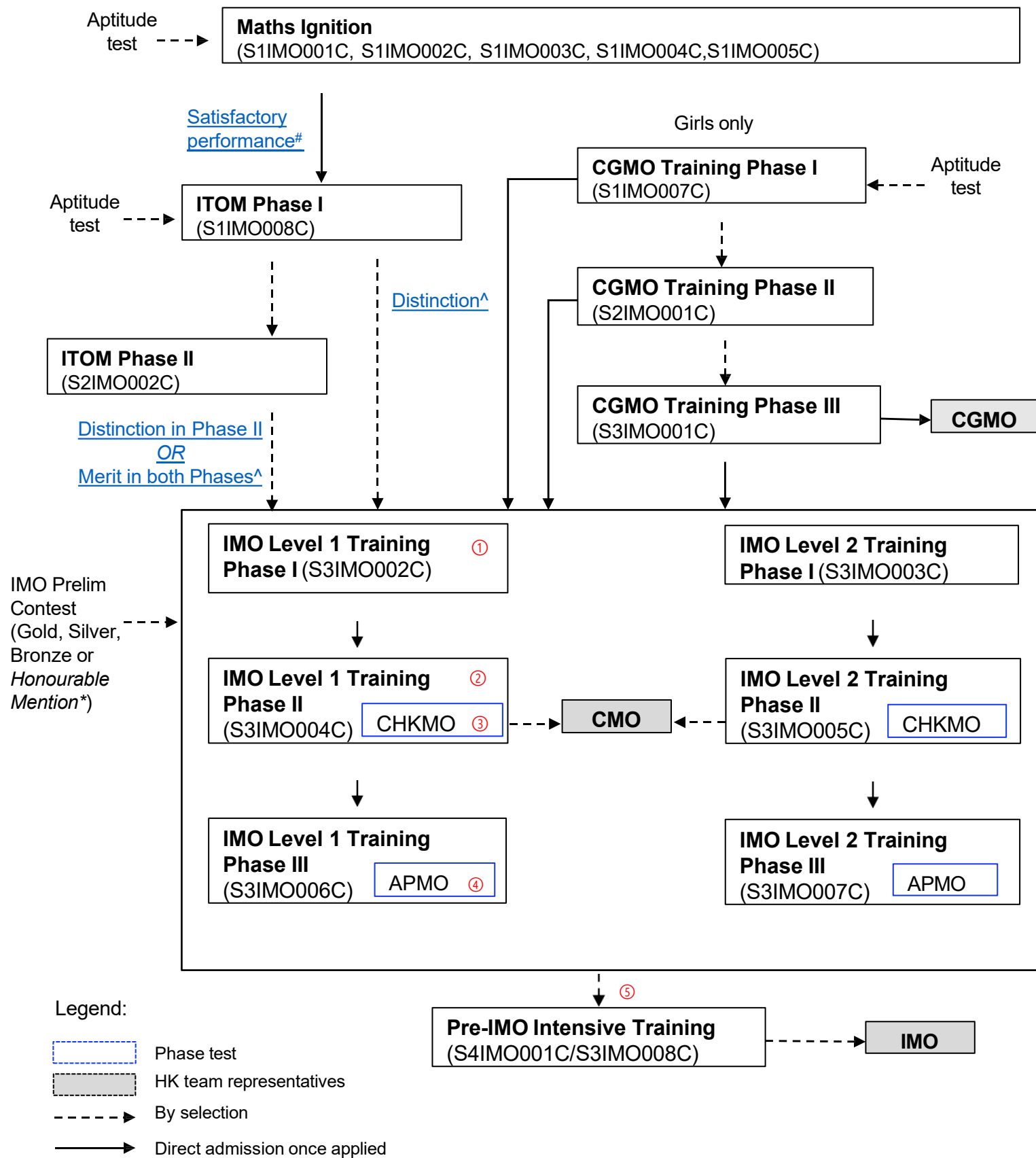
- Four phases of training
- Application will be open from June to July each year; the application is limited to invited members only
- Refer to the important notice (P.4) for the eligibility of IMO trainings
- IMO HK Team representatives are selected based on their performance in the assessments during trainings
- The HKAGE and IMO HKCL reserve the right of the final decision in case of any dispute concerning the IMO HK Team list

**For detailed criteria, flowchart and timeline, please refer to the next page.*

◆ **Enquiries** ☎ 3940 0101 ✉ programme@hkage.org.hk

International Mathematical Olympiad Related Programmes

(English version only 只提供英文版)



Remarks:

ITOM – Introduction to Olympiad Mathematics
CGMO – China Girls' Mathematical Olympiad
IMO – International Mathematical Olympiad

CHKMO – Hong Kong (China) Mathematical Olympiad
CMO – Chinese Mathematical Olympiad
APMO – Asian Pacific Mathematics Olympiad

IMO HK Team representatives are selected based on their performance in the assessments from ① through ⑤
*For Honourable Mention awardees, admission to the training is subject to seat availability

IMPORTANT information for International Mathematical Olympiad (IMO) Training 2025/26**IMO Training 2025/26****Suitable for***

- Awardees of the IMO Preliminary Selection Contest 2025
- Student members who have completed any phase with Distinction or both phases with Merit of ITOM Training in the year of 2025
- Student members who have completed any phase of CGMO Training in the year of 2025
- Student members who have completed any phase of IMO Training in the school year 2024/25

**If the IMO training is oversubscribed, priority will be given based on the recommendations from the International Mathematical Olympiad Hong Kong Committee Limited (IMOHKCL).*

| Training /Competition | Content | Tentative schedule | Remark |
|------------------------------------------------|--------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Phase I Training | 13 x 3-hr lessons | Jul - Aug | |
| | Test 1 ① 3 hr, 6 proof problems | Aug | <ul style="list-style-type: none"> ▪ Phase test ▪ No make-up test |
| Phase II Training | 17 x 3-hr lessons | Sep - Dec | |
| | Test 2 ② 3 hr, 4 proof problems | Oct | <ul style="list-style-type: none"> ▪ Phase test ▪ No make-up test |
| | CHKMO ③ 3 hr, 4 proof problems | Dec | <ul style="list-style-type: none"> ▪ Phase test ▪ No make-up test |
| Phase III Training | 8 x 3-hr lessons | Jan - Mar | |
| | APMO ④ 4 hr, 5 proof problems | Mar | <ul style="list-style-type: none"> ▪ End-of-phase test ▪ No make-up test |
| Selection Tests for Pre-IMO Intensive Training | Test 3 ⑤ 2 days x 4.5 hr, 3 proof problems | Apr or May | <ul style="list-style-type: none"> ▪ About 20 students to be selected based on previous tests ▪ No make-up tests |
| Pre-IMO Intensive Training^ | IMO HK Team (6 students) & Alternate Team (6 students) | | <ul style="list-style-type: none"> ▪ 12 students to be selected based on previous tests |
| IMO | 2 days x 4.5 hr, 3 proof problems | | <ul style="list-style-type: none"> ▪ IMO HK Team |
| CMO | 2 days x 4.5 hr, 3 proof problems | | <ul style="list-style-type: none"> ▪ About 6 students to be selected based on previous tests |
| CGMO | 2 days x 4 hr, 4 proof problems | | <ul style="list-style-type: none"> ▪ About 8 female students selected via CGMO training |

IMO HK Team representatives are selected based on their performance in the assessments from ① through ⑤

^The HKAGE and IMOHKCL reserve the right of the final decision in case of any dispute concerning the IMO HK Team list

Useful websites

| | |
|--------------------------|---------------------------------------------------------------------------------------|
| IMO official website: | http://www.imo-official.org/ |
| IMOHKCL official website | https://www.imohkc.org.hk/ |
| IMO 2025 website: | https://imo2025.au/ |
| Art of Problem Solving: | http://www.artofproblemsolving.com/ |
| Mathematical Excalibur: | http://www.math.ust.hk/excalibur/ |

#Entering ITOM with Satisfactory Performance in Maths Ignition (MI) Programmes

Students who fulfilled one of the criteria below are eligible to enter ITOM - "Introduction to Olympiad Mathematics (Phase I)" (S1IMO008C):

- good results in aptitude test; **OR**
- distinction in at least 2 different MI courses; **OR**
- merit/distinction in at least 3 different MI courses; **OR**
- pass/merit/distinction in at least 4 different MI courses