



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

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S3IM0003C

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**Advanced Course in Mathematical Olympiad**

# **International Mathematical Olympiad Training 2025-26 (Phase I) Level II**

Dr CHING Tak Wing and other trainers from IMOHKC

English version only 只供英文版



**Application Deadline**  
**9 July 2025 12:00 noon**

**Result Release**  
**11 July 2025**

## **Intended Learning Outcomes**

Upon completion of the programme, participants should be able to:

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

## ◆ Introduction

- A comprehensive mathematics programme which covers such as Algebra, Number Theory, Geometry and Combinatorics
- Introduce the basic curriculum of the International Mathematical Olympiad competition
- Broaden student's mathematical knowledge, strengthen their problem solving, higher order and logical thinking skills
- Training consists of four phases: Phase I (Jul – Aug), Phase II (Sep – Dec), Phase III (Jan – Mar 2026) and Pre-IMO Intensive training.
- Students with outstanding performance in the programme would be selected to represent Hong Kong in the 67<sup>th</sup> IMO 2026

The International Mathematical Olympiad Training programmes are co-organized with International Mathematical Olympiad Hong Kong Committee (IMOHKC)

## ◆ Target Participants

- S1 to S6 HKAGE students
- Student members who have completed three phases of IMO training, achieved outstanding results in the selection tests, and recommended by the IMOHKC
- Class size: 40

This programme is the same as S3IM0003C in the school year 2024/25

## ◆ Certificate

E-certificate will be awarded to participants who have:

- **Attended the test held on 28 August 2025 (Thursday)**

## ◆ Medium of Instruction

Cantonese with English Handouts

## ◆ Schedule

Session	Date	Time	Venue
1	26 July 2025	2:00 p.m. – 5:00 p.m.	Room 204, HKAGE
2	29 July 2025	2:00 p.m. – 5:00 p.m.	
3	31 July 2025	2:00 p.m. – 5:00 p.m.	
4	2 Aug 2025	2:00 p.m. – 5:00 p.m.	
5	5 Aug 2025	2:00 p.m. – 5:00 p.m.	
6	7 Aug 2025	2:00 p.m. – 5:00 p.m.	
7	9 Aug 2025	2:00 p.m. – 5:00 p.m.	
8	12 Aug 2025	2:00 p.m. – 5:00 p.m.	
9	14 Aug 2025	2:00 p.m. – 5:00 p.m.	
10	16 Aug 2025	2:00 p.m. – 5:00 p.m.	
11	19 Aug 2025	2:00 p.m. – 5:00 p.m.	
12	21 Aug 2025	2:00 p.m. – 5:00 p.m.	
13	28 Aug 2025	2:00 p.m. – 5:00 p.m.	Room 105, HKAGE

## ◆ 附錄 – 國際數學奧林匹克相關課程

- 國際數學奧林匹克相關課程 (IMO-related programmes) 為一系列提供國際數學奧林匹克相關訓練的課程。課程目標為循序漸進地加強學員對數學知識及奧林匹克範圍的認識、解題能力及高層次思維能力
- 各課程有不同的報讀方法，例如：能力傾向測試；詳情請參閱各課程的海報

### 程度一

#### 數學燃動課程 (MI)

- 對象為中一至中三資優教育學苑學員
- 按課題進行的數學奧林匹克基礎訓練
- 五個數學燃動課程分別於每年4、7、10月接受報名
- 需通過能力傾向測試

### 程度一至二

#### 數林匹克初探 (ITOM)

- 對象為中一至中六資優教育學苑學員
- 兩階段的訓練
- 每年1月份接受報名
- 需通過能力傾向測試；或
- 學員(a)在兩個數學燃動課程中獲得「certificate of distinction」；或 (b)在三個數學燃動課程中獲得「certificate of merit」或以上成績；或 (c)在四個數學燃動課程中獲得「certificate of completion」或以上成績；可獲直接取錄

### 程度一至三

#### 中國女子數學奧林匹克(CGMO) 訓練

- 對象為中一至中六資優教育學苑女學員
- 三階段的訓練
- 每年1月份接受報名
- 需通過能力傾向測試；或
- 於過去兩年已完成任一階段國際數學奧林匹克訓練/中國女子數學奧林匹克訓練/數林匹克初探可獲直接取錄
- 中國女子數學奧林匹克香港代表隊成員將按學員於訓練中的表現挑選

### 程度三至四

#### 國際數學奧林匹克(IMO) 訓練\*

- 四階段的訓練
- 每年6-7月份接受報名；只限受邀的學員進行報名
- 有關國際數學奧林匹克訓練的參與資格，請參閱第4頁的重要通知
- 國際數學奧林匹克香港代表隊成員將按學員於訓練中考核的表現挑選
- 如有國際數學奧林匹克香港代表隊成員名單有任何爭議，香港資優教育學苑及國際數學奧林匹克香港委員會有限公司保留最終決定權

\*詳盡的資格、流程圖及時間線請參閱後頁



Enquiries



3940 0101



programme@hkage.org.hk

## ◆ 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\*

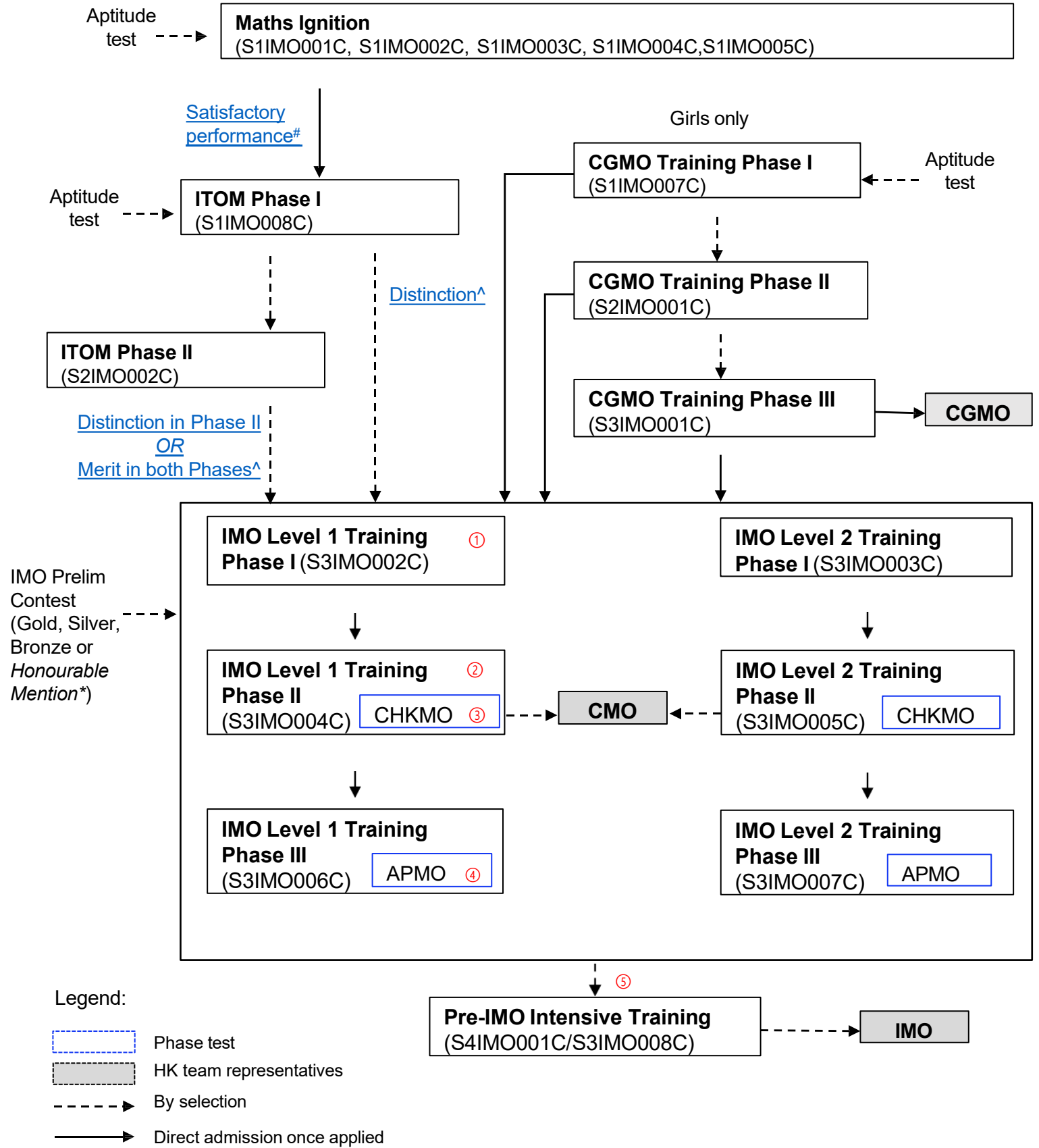
- Four phases of training
- Application will be open from June to July each year; the application is limited to invited members only
- Refer to the important notice (P.4) for the eligibility of IMO trainings
- IMO HK Team representatives are selected based on their performance in the assessments during 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](mailto:programme@hkage.org.hk)

# International Mathematical Olympiad Related Programmes

(English version only 只提供英文版)



**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"> <li>▪ Phase test</li> <li>▪ No make-up test</li> </ul>
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"> <li>▪ Phase test</li> <li>▪ No make-up test</li> </ul>
	CHKMO ③ 3 hr, 4 proof problems	Dec	<ul style="list-style-type: none"> <li>▪ Phase test</li> <li>▪ No make-up test</li> </ul>
Phase III Training	8 x 3-hr lessons	Jan - Mar	
	APMO ④ 4 hr, 5 proof problems	Mar	<ul style="list-style-type: none"> <li>▪ End-of-phase test</li> <li>▪ No make-up test</li> </ul>
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"> <li>▪ About 20 students to be selected based on previous tests</li> <li>▪ No make-up tests</li> </ul>
Pre-IMO Intensive Training^	IMO HK Team (6 students) & Alternate Team (6 students)		<ul style="list-style-type: none"> <li>▪ 12 students to be selected based on previous tests</li> </ul>
IMO	2 days x 4.5 hr, 3 proof problems		<ul style="list-style-type: none"> <li>▪ IMO HK Team</li> </ul>
CMO	2 days x 4.5 hr, 3 proof problems		<ul style="list-style-type: none"> <li>▪ About 6 students to be selected based on previous tests</li> </ul>
CGMO	2 days x 4 hr, 4 proof problems		<ul style="list-style-type: none"> <li>▪ About 8 female students selected via CGMO training</li> </ul>

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

## #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