

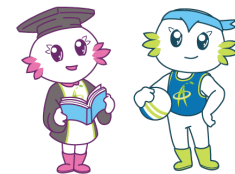


香港資優教育學苑

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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E1ENG001C

(Token- required)

[ **Gifted Programme** ]

**Engineering Course (Level I)**

# Mini 4-Wheel Drive, Ready Go!

Stage One Education



**Application Deadline**  
**8 Dec 2025 12:00 noon**

**Result Release**  
**11 Dec 2025**

## **Intended Learning Outcomes**

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

1. Explain the mini 4-wheel drive structure and race concept;
2. Analyze the scientific principles of factors that affect the speed and stability of a 4WD;
3. Analyze the characteristics of various tracks and make suitable modifications;
4. Creatively modify a 4WD to complete a race with speed and stability;
5. Enhance creativity and thinking skills through 4WD modification;
6. Cultivate a positive mindset to challenge various tracks.

If student members withdraw from the programme after the Application Deadline, the token will be deducted.

## ◆ Gifted Programme Introduction

The course will focus on a technical competition and explaining the important factors of how to increase the speed of a mini 4WD and how to modify it to run on various difficult tracks. The content focuses on hands-on modification and communication as well as encouraging students to use creativity to face new challenges with limited materials. Students verify their learning with various testing and record the results in class. They would improve their self-confidence and thinking skills through the presentation of their 4WD modification review.

Students who have outstanding performance in the selection competition will be invited to join the Phase II Training (E2ENG001C).

## ◆ Schedule

| Session | Date                                                                        | Time                  | Venue                                                      |
|---------|-----------------------------------------------------------------------------|-----------------------|------------------------------------------------------------|
| 1       | 22 Dec 2025 (Mon)                                                           | 2:00 p.m. – 5:00 p.m. | The Hong Kong Academy<br>for Gifted Education,<br>Room G01 |
| 2       | 23 Dec 2025 (Tue)                                                           |                       |                                                            |
| 3       | 29 Dec 2025 (Mon)                                                           |                       |                                                            |
| 4       | 30 Dec 2025 (Tue)                                                           |                       |                                                            |
| 5       | 2 Jan 2026 (Fri)<br><br>(Selection<br>Competition for<br>Phase II Training) |                       |                                                            |

## ◆ Suitable for

- S1 – S3 HKAGE student members in 2025/26 school year.
- Class size: 20
- This programme is similar to the Engineering Course (Level I): Mini 4 Wheel Drive, Ready Go! (E1ENV010W) in the 24/25 school year. Students who have completed this course in the 24/25 school year will be invited to attend the selection competition on 2 Jan 2026 for Phase II training.
- Student members would be selected randomly by the computer system. The decision of HKAGE on the result of the selection should be final.

## ◆ Pre-requisite

No special prerequisites are needed. A mini 4WD (MA Chassis), tools and parts will be provided.

## ◆ Medium of Instruction

Cantonese with Chinese handouts

## ◆ Certificate

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

- attended at least 4 sessions; AND
- completed all the assignments with satisfactory performance

## ◆ Schedule for Phase II (E2ENG001C)

| Session | Date              | Time                  | Venue                                                                        |
|---------|-------------------|-----------------------|------------------------------------------------------------------------------|
| 1       | 21 Feb 2026 (Sat) | 2:00 p.m. – 5:00 p.m. | The Hong Kong Academy<br>for Gifted Education<br>(Classroom to be confirmed) |
| 2       | 28 Feb 2026 (Sat) |                       |                                                                              |
| 3       | 7 Mar 2026 (Sat)  |                       |                                                                              |
| 4       | 14 Mar 2026 (Sat) |                       |                                                                              |
| 5       | 21 Mar 2026 (Sat) |                       |                                                                              |
| 6       | 28 Mar 2026 (Sat) |                       |                                                                              |
| 7       | 11 Apr 2026 (Sat) |                       |                                                                              |
| 8       | 18 Apr 2026 (Sat) |                       |                                                                              |
| 9       | 25 Apr 2026 (Sat) |                       |                                                                              |
| 10      | 2 May 2026 (Sat)  |                       |                                                                              |

### ◆ Medium of Instruction

Cantonese with Chinese handouts

### ◆ Certificate

E-Certificate will be awarded to participants who have:

- attended at least 7 sessions; AND
- completed all the assignments with satisfactory performance.