

New Energy Technology and Industry Education Programme for Primary & Secondary Teachers

New Energy Technology
Learning and Experience

New Energy Vehicles
Learning and Experience

Hydrogen Energy Technology and
Industry Immersive Experience

** The image is AI-generated **

Master New Energy Trends Inspire Green STEAM Education

As climate change accelerates the global green transition, new energy technologies are advancing rapidly. Hong Kong is also progressing towards its goal of achieving carbon neutrality before 2050.

This programme equips primary and secondary school teachers with knowledge of new energy technologies and industry developments. It supports the integration of low-carbon concepts, STEAM education and digital-learning elements into school-based curricula and teaching activities, inspiring future green-technology talent with environmental responsibility and a global outlook.

Delivery Mode

Face-to-Face Classroom Training

Date and Time

29 August 2026 (Saturday)
9:30 am – 12:30 pm

Venue

Classroom 119, 1/F,
HKPC Building, 78 Tat Chee
Avenue, Kowloon, Hong Kong

Language

Cantonese

Course Fee

HK\$260

Remarks

Certificate of Accomplishment will
be issued upon completion of the
course.

Course Highlight

This programme is built around the theme of "Understanding Technology, Exploring Industry, Inspiring Teaching," covering modules on new energy technologies, new energy vehicles and the hydrogen industry.

Participants will explore cutting-edge developments such as green hydrogen, energy storage, electric vehicles and fuel cells, gaining insight into low-carbon transition trends through technology showcases and real-world application cases. The course also integrates STEAM education, digital tools and inquiry-based learning, empowering teachers to bring new energy knowledge, environmental values and innovative thinking into their school-based teaching.

Award of Certificate of Accomplishment

Certificate of Accomplishment issued by the Hong Kong Productivity Council will be awarded to participants in full attendance.

Course Outlines

1. New Energy Technology and Industry Overview

- Green transition trends in Hong Kong and worldwide
- Green hydrogen, ammonia, methanol and energy storage
- Role of new energy in sustainable development

2. New Energy Vehicle (NEV) Applications

- Basics of electric and hydrogen fuel-cell vehicles
- Electric vehicle technology showcase
- Industry trends and developments

3. Hydrogen Technology Overview

- Introduction to hydrogen systems, storage and refuelling
- Onsite visit to hydrogen equipment (refuelling equipment, fuel-cell systems, storage units)

4. School-based Extension Activity

- Campus green energy planning challenge
- Cross-disciplinary activities linking sustainability, technology and innovation
- Turning learning into practical STEAM projects for schools

Learning Outcomes

By the end of this course, participants will be able to:

- ✓ **Grasp core new energy knowledge:**
Understand green hydrogen, ammonia, methanol, energy storage and industry trends.
- ✓ **Understand green transport trends:**
Learn how electric and hydrogen fuel-cell vehicles work, their applications and future potential.
- ✓ **Bridge technology and teaching:**
Apply STEAM, low-carbon education, inquiry-based learning and digital tools to design engaging lessons.
- ✓ **Experience real industry settings:**
Deepen understanding of new energy technologies through demonstrations and hands-on visits.
- ✓ **Inspire school-based innovation:**
Bring new energy knowledge, environmental values and creative thinking into cross-disciplinary learning, projects or campus green initiatives.

Trainer Profile

Mr Ralph Xu is Head, Green Transportation at Centre of Advanced Power and Autonomous Systems (APAS), Hong Kong Productivity Council (HKPC). He is equipped with solid background of automotive industry and electric vehicle development. He has been working in automotive industry for 20 years, with profound experience in R&D, manufacturing and quality control. He is now focusing on new energy transportation including EV and hydrogen energy technology.



Enrolment method

- Step 1 :
Scan the QR code to register and settle the course fee online ; or
- Step 2 :
Mail a crossed cheque made payable to "Hong Kong Productivity Council," together with the completed registration form, to:
Ms. Au, Centre of Advanced Power and Autonomous Systems (APAS),
4/F, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong.

Please indicate the course title and course code on the back of the cheque and on the envelope.

