Aim / Objective

This is to invite secondary schools to participate in the captioned event.

Details

- 2. The Education Bureau (EDB), The Industry Training Advisory Committee for Testing and Certification Industry under Hong Kong Qualifications Framework (HKQF) and Hong Kong Council for Testing and Certification (HKCTC) jointly organise the "Science in Action: Experiential Learning Activities on Testing and Certification Industry for Secondary Students (2024/25)". The activities of this event aim to enhance students' understanding about the Testing and Certification (T&C) industry, potentially sparking their interest and aspiration in pursuing science study and considering further development in the T&C industry. Meanwhile, the activities also aim to facilitate teachers to better guide their students in life planning, in particular related to the articulation pathways in the T&C industry.
- 3. The activities include school talks, visits and student workshops. For details, please refer to Appendix 14a. Schools interested in arranging the activities for their students are requested to complete the respective application forms at Appendix 14b-e and return it by fax to Science Education Section, EDB (Fax no.: 2194 0670) on or before **10 January 2025** (**Friday**).

Contact Person

4. For enquiries, please contact Dr Matthew LI of the Science Education Section, EDB on 3698 3447.

Details of the Activities

1. Introduction

"Science in Action: Experiential Learning Activities on Testing and Certification Industry for Secondary Students (2024/25)" is jointly organised by the Education Bureau (EDB), The Industry Training Advisory Committee for Testing and Certification Industry under Hong Kong Qualifications Framework (HKQF) and Hong Kong Council for Testing and Certification (HKCTC). With a key objective of introducing Testing and Certification (T&C) industry to secondary students and teachers, the activities are organised around the themes on food, clothing, housing and transport in relation to T&C and our daily living. These activities include (A) Student Workshop on Testing and Certification; (B) School Talk: Testing & Certification in Our Daily Living; (C) Student Activity: Visit to Laboratories / Organisations of Testing and Certification Industry; and (D) Professional Development Programme for Chemistry Teachers: Visit to Laboratories / Organisations of Testing and Certification Industry.

2. Aims

- To enhance teachers' and students' understanding about the latest development of the T&C industry, its career prospects and the articulation pathways;
- To facilitate teachers and students to appreciate the relevance of science study in secondary level to the T&C industry and thus our daily life and society;
- To encourage students to choose science subjects in senior secondary level; and
- To inspire students to commit to building solid basis of science knowledge and skills for further development in science-related career, especially in relation to the T&C industry.

3. Details of activities

Activity	Target Participants	Co	ontents / Venue	Date
(A) Student Workshop	S5 students	-	Chemistry experiments	Jun – Jul
on Testing and	studying	-	Introduction to degree programmes	2025
Certification	Chemistry		and career paths in T&C	
		-	Venue: Laboratory of Hong Kong	
			Metropolitan University	
(B) School Talk:	S3 students	-	Sharing from T&C practitioners	Mar – May
Testing & Certification		-	Introduction to career prospects and	2025
in Our Daily Living			articulation pathways of T&C	
			industry	
		-	Venue: to be provided by the	
			applicant school	

Activity	Target Participants	Co	ontents / Venue	Date
(C) Student Activity:	S4-S6 students	-	Guided tour to T&C related	Feb & Apr
Visit to Laboratories /	studying		laboratories	2025
Organisations of	Chemistry	-	Venue: TÜV Rheinland Hong Kong	
Testing and			Limited / Public Works Central	
Certification Industry			Laboratory, the Civil Engineering	
			and Development Department	
(D) Professional	Chemistry	-	Guided tour to T&C related	Feb & May
Development	teachers		laboratories	2025
Programme for		-	Venue: Lee Kam Kee Company	
Chemistry Teachers:			Ltd. – Testing Laboratory / SGS	
Visit to Laboratories /			Hong Kong Ltd.	
Organisations of				
Testing and				
Certification Industry				

(A) Student Workshop on Testing and Certification

Application Form (Deadline for application: 10 January 2025 (Fri))

Please return the completed application form on or before <u>10 Jan 2025 (Fri)</u> to Science Education Section, Education Bureau (Attn: Dr Matthew LI) by FAX (<u>Fax no.: 2194 0670</u>).

The	information	of	our	school	participating	1n	the	Student	Workshop	on	Testing	and
Cer	tification is a	s fo	llow	s:								
No.	of participating	ng s	stude	nts (S5)	*: 							

Workshop Schedule[#] (4 repeating sessions)

(Please ☑ as appropriate)	Time Slot	Date	Time	Priority (If more than one time slot are chosen, please indicate order of preference.) [1 – most preferred]
П	A	23 June 2025		
		(Mon)		
	В	25 June 2025		
		(Wed)	2:30 p.m. –	
	С	7 July 2025	5:00 p.m.	
		(Mon)		
	D	8 July 2025		
		(Tue)		

Remarks:

- Target participants are **S5 students** studying Chemistry. Schools may nominate up to **25 students** to participate in a workshop.
- Applications will be processed on a first-come, first-served basis.
- This student workshop is free of charge. However, schools are responsible for arranging and covering the cost of transportation for students.
- All students and teachers must adhere to the safety guidelines provided by the laboratory staff during the workshop.
- The application results will be confirmed via email on or before **24 Jan 2025** (Fri).

Name of School :		
School Address :		
School Tel. No. :	Fax No. :	
Name of Teacher-in-charge :	(English)	(Chinese)
Contact No. of Teacher-in-charge:		
E-mail Address of Teacher-in-charge:		
	Name of Principal:	
	Signature of Principal :	
	Date :	
School Chop		

教育局 **Education Bureau** 香港檢測和認證局

Hong Kong Council for Testing and Certification Qualifications Framework



Ignite Your Students' Passion for Chemistry!

Why Attend?

- Hands-On Learning: Practical chemistry experiments related to pharmaceuticals and nutrition supplements.
- Real-World Applications: Introduction to quality control and regulatory compliance in
- Further Study and Career Insights: Introduction to bachelor programmes and exciting career paths in Testing and Certification.

Workshop Highlights:

- Chromatography: See how substances are separated from a complex mixture.
- Spectrophotometry: Understand how light is used to test product purity.
- Mass Spectrometry: Find out how specific compound can be identified in a mixture.
- Heavy Metal Detection: Detect metals in consumer goods.

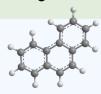
Event Details:

- Date: Late June to early July 2025 (4 repeating sessions)
- Time: 2:30 PM 5:00 PM
- Venue: Hong Kong Metropolitan University
- Target: S.5 students taking chemistry
- Capacity: 25 students per workshop (First-come, first-served)
- Fee: Free of charge



Certificate!

Students who complete the workshop will receive a Certificate of Participation.





(B) School Talk: Testing & Certification in Our Daily Living

Application Form (Deadline for application: 10 January 2025 (Fri))

Please return the completed application form on or before <u>10 Jan 2025 (Fri)</u> to Science Education Section, Education Bureau (Attn: Dr Matthew LI) by FAX (<u>Fax no.: 2194 0670</u>).

Remarks:

- The talks can be arranged in the period of **March to May 2025**.
- Applications will be processed with consideration of the availability of the speakers and on a first-come, first-served basis.
- The talks target to Form 3 Students. Each school talk will normally last for **ONE hour**, delivered in a face-to-face mode and conducted in Cantonese.
- Participating schools shall provide a venue in their school campus to accommodate the desired number of participating students.
- Schools are responsible for the venue setup such as seats, microphones, a computer, a projector and a screen etc.
- The application results will be confirmed via email on or before **24 Jan 2025** (Fri).

Our school would like to arrange the following school talk(s):

Theme	Date and time	No. of classes and
(Please ☑ as appropriate; you can	(Please write two possible dates and	students
select more than one.)	times:	(e.g. 4 classes; 120
	e.g. 23 May 2025, 2:15 pm – 3:15 pm)	students)
☐ Theme 1:	1st priority:	No. of classes:
Getting to Know the Testing and		
Certification Industry: Food Testing	2nd priority:	No. of students:
☐ Theme 2:	1st priority:	
Getting to Know the Testing and		No. of classes:
Certification Industry: Textile &	2nd priority:	
Garment Testing		No. of students:

(B) School Talk: Testing & Certification in Our Daily Living – Application Form (Cont'd)

		1
Theme	Date and time	No. of classes and
(Please ☑ as appropriate; you can	(Please write two possible dates and	students
select more than one.)	times:	(e.g. 4 classes; 120
	e.g. 23 May 2025, 2:15 pm – 3:15 pm)	students)
☐ Theme 3:	1st priority:	
Getting to Know the Testing and		No. of classes:
Certification Industry: Construction		
Materials Testing	2nd priority:	No. of students:
	I	<u> </u>
Name of School:		
School Address:		
belloof Address .		
Sahaal Tal. No. :	Fax No. :	
School Tel. No	Fax No	
N 67 1 1 1	(F. 11.1)	(61:
Name of Teacher-in-charge :	(English)	(Chinese)
Contact No. of Teacher-in-charge :		
E-mail Address of Teacher-in-charge:		
	Name of Principal:	
	1	
	Signature of Principal:	
	Signature of Timelpur.	·
	Date :	
	<u> </u>	
School Chop		

Organisers:

教育局 Education Bureau

香港檢測和認證局 Hong Kong Council for Testing and Certification

Qualifications Framework

SCIENCE IN ACTION

School Talk: Testing & Certification in **Our Daily Living**

(2024/25)

Talk Highlights:

- **▼** Share on Testing & Certification industries by corresponding practitioners.
- Inspire students to choose science subjects in future study.
- Suggest articulation pathways and career prospects within the T&C industry.

Theme 1

Getting to Know the Testing and Certification Industry: **Food Testing**



<u>Getting to Know the Testing and Certification Industry:</u> **Textile & Garment Testing**

Theme 3

Getting to Know the Testing and Certification Industry: **Construction Materials Testing**

Date: Mar - May 2025

Duration: 1 Hour

Target: Form 3 students

Venue: At school

(C) Visit to Laboratories / Organisations of Testing and Certification Industry <u>for Students</u>

Application Form (Deadline for application: 10 January 2025 (Fri))

Please return the completed application form on or before 10 Jan 2025 (Fri) to Science Education Section, Education Bureau (Attn: Dr Matthew LI) by FAX (Fax no.: 2194 0670).

Our school would like to join the following visit(s):
(Please ☑ as appropriate; you can select more than one.)
☐ Visit to TÜV Rheinland Hong Kong Limited (Location: Tsuen Wan)
About the visit: TÜV Rheinland is a German-based corporation established more than 150 years ago. It is one of the world's leading testing service providers which delivers a wide spectrum of testing and certification services to its clients. During the visit, students will have the opportunity to learn more about the real environment of a commercial laboratory, and the adoption of different chemical testing techniques for a range of consumer products.
Date and time of visit (You can select more than one): ☐ 21 Feb 2025 (Fri), 2:30 pm – 4:00 pm ☐ 28 Feb 2025 (Fri), 2:30 pm – 4:00 pm
☐ Visit to Public Works Central Laboratory, the Civil Engineering and Development Department
(CEDD) (Location: Kowloon Bay)
About the visit: The Public Works Central Laboratory is part of the Public Works Laboratories (PWL) of CEDD. PWL provide an extensive range of materials testing services for the construction industry to ensure the quality of the construction materials used in public works meeting the stipulated standards. During the visit, students will experience the real environment and the daily operation of a Government testing laboratory, and understand more about different testing methods adopted in construction materials testing.
Date and time of visit (You can select more than one):
□ 15 Apr 2025 (Tue), 2:30pm – 4:30pm
□ 30 Apr 2025 (Wed), 2:30pm – 4:30pm

Number of participating students:	Level of students:	·
Number of participating teachers:		
Remarks:		
 A visit will normally last for 1.5 to 2 leads to S4-S6 students as students and 2 teachers to participate. Applications will be processed on a firm. The visits are free of charge. However the cost of transportation for students. All students and teachers must adher staff during the visit. The application results will be confirm. 	etudying Chemistry. Schools material et in each visit. rst-come, first-served basis. er, schools are responsible for arterial et of the safety guidelines provide	ranging and covering
Name of School :School Address :		
School Tel. No. :		
Name of Teacher-in-charge :	(English)	(Chinese)
Contact No. of Teacher-in-charge :		
E-mail Address of Teacher-in-charge :		
	Name of Principal :	
	Signature of Principal : Date :	
School Chop		

(D) Professional Development Programme for Chemistry Teachers: Visit to Laboratories / Organisations of Testing and Certification Industry

Chemistry teachers of secondary schools can apply for the following laboratory visits through Training Calendar System (TCS) #:

Course ID	Course content	Visiting venue	Date
CSD020250208		Lee Kam Kee Company Limited – Testing Laboratory (Location: Tai Po)	Feb 2025
	to career prospects and articulation pathways of T&C industry • Guided tour to different laboratories	SGS Hong Kong Limited (Location: Fanling)	May 2025

[#] The course of visits will be posted onto TCS in due course.