hkpc Academy 生產力學院

ESG Empowerment Series – Environmental 101 for Business Leaders

CONNECTION TECHNOLOGY 裝備未來 FUTURESKILLS

Course Fee: HK9,000
(May apply up to HK$6,000 subsidy)
*Maximum saving, with the final grant subjects to approval.

NITTP Applying

Environmental 101 for Business Leaders offers a comprehensive curriculum with 10 modules that covers 3 key environmental categories. You can gain in-depth knowledge and practical skills, enabling you to address environmental challenges and implement sustainable practices within your organisations.

Date	18 November 2024 – 6 January 2025 (Monday, Wednesday)
Time	2:30-5:30pm; 6:30-9:30pm
Venue	Classroom 120, 1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong
Medium	English
Course fee	HK$ 9,000 *an attendance of no less than 70% of the training hours

You may select different combinations of the modules with your own preference.

Category A) Air and Water	Category B) Waste and Sewage	Category C) Energy and Carbon
1. Building Liveable City with Clean Air	4. Sustainable Wastewater Management II	7. Building Energy Efficiency and Decarbonisation
2. Indoor Air Quality (IAQ) Engineering	5. Solid and Hazardous Waste Management	8. Business Opportunities of Solar-driven Renewable Resources
3. Sustainable Wastewater Management I	6. Techno-economic Analyses of Food and Textile Waste Valorisation Process	9. Built Environment and Life Cycle Assessment
		10. Climate Change Mitigation Technology for Business

Three Levels of Recognition

Participants will receive certificates of completion for each module attended. You will also have the opportunity to earn higher levels of recognition:

- **Green Business Leader** – After completion of 1 course in each category.
- **Green Business Pioneer** – After completion of 2 courses in each category.
- **Green Business Champion** – After completion of all courses in each category.

This course is subject to approval under the New Industrialisation and Technology Training Programme (NITTP) with up to 2/3 course fee reimbursement upon successful applications. For details: https://nittp.vtc.edu.hk.

Itinerary / Course Outline

Date	Time	Topic (Category)	Trainer
18 Nov 2024 (Mon)	2:30-5:30pm	Building Energy Efficiency and Decarbonization (C7)	Prof. Liang DONG
20 Nov 2024 (Wed)		Business Opportunities of Solar-driven Renewable Resources (C8)	Prof. Sam HSU
25 Nov 2024 (Mon)		Building Liveable City with Clean Air (A1)	Prof. Shauhrat S. CHOPRA
27 Nov 2024 (Wed)		Sustainable Wastewater Management I (A3)	Prof. Zhiguo YUAN
2 Dec 2024 (Mon)		Built Environment and Life Cycle Assessment (C9)	Prof. Shauhrat S. CHOPRA
4 Dec 2024 (Wed)		Sustainable Wastewater Management II (B4)	Prof. Zhiguo YUAN
9 Dec 2024 (Mon)		Indoor Air Quality (IAQ) Engineering (A2)	Prof. Edwin TSO
11 Dec 2024 (Wed)		Solid and Hazardous Waste Management (B5)	Prof. Jason LAM
16 Dec 2024 (Mon)	6:30-9:30pm	Climate Change Mitigation Technology for Business (C10)	Prof. Jin SHANG
6 Jan 2025 (Mon)	2:30-5:30pm	Techno-economic Analyses of Food and Textile Waste Valorisation Process (B6)	Prof. Carol LIN

NITTP Training Grant Application

Companies should submit their NITTP training grant application for their employee(s) via https://nittp.vtc.edu.hk/rttp/login at least **five weeks before** course commencement. Alternatively, **application form** could be submitted to the Secretariat in person, by post, by fax or by email to nittp@vtc.edu.hk together with supporting documents.

Trainers Information

Prof. Dong Liang obtained his Ph.D. in Urban Environmental Studies from Nagoya University, Japan. He focuses on applying principles of Industrial Ecology to fight to the challenges of developing sustainable, smart and low-carbon cities, with emphasis on the sustainability science & policies, environmental system analysis, and policies design under the theme of urban sustainability.

Prof. Sam HSU obtained his PhD degree at University of Florida with focusing on photophysical behaviours of functional metallopolymer materials for solar energy and optoelectronic applications. The area of his expertise stretches from material design to new related disciplines involving material characterisation and diverse applications, such as solar fuels, organic and inorganic photovoltaic cells, wastewater treatment and food waste management.

Prof. Shauhrat S. Chopra received his PhD in Civil and Environmental Engineering from the Swanson School of Engineering at the University of Pittsburgh, USA, in 2015. His doctoral dissertation was focused on resilience of complex systems including economic systems, industrial symbiosis, and critical infrastructure systems at urban and national levels. His data-driven research is focused on designing indicators for sustainability and resilience of the built environment in support of environmental decision-making.

Prof. Zhiguo Yuan AM is a Global STEM Professor, a Fellow of the Australian Academy of Technology and Engineering, and a Distinguished Fellow of the International Water Association. His research focuses on innovative solutions for urban water management through effective integration of fundamental science and engineering. He is the founder of three biotechnology businesses. He is a Clarivate Highly Cited Researcher, and Editor-in-Chief of Water Research X. As a lecturer, he was actively involved in continuing professional development in Australia for over 20 years.

Trainers Information

Prof. Edwin Tso received his PhD degree in Mechanical Engineering from The Hong Kong University of Science and Technology (HKUST) in 2015. Prof. TSO focuses on understanding the fundamentals of heat transfer, energy conversion and engineered material science with the target of integrating theory and experiments to create innovative solutions to enhance thermal management, built environment, space cooling and refrigeration, micro-droplet manipulation and energy-efficient building technologies, making a great and global impact by addressing the biggest needs and issues in our world.

Prof. Jason Lam earned his PhD in Chemistry from Michigan State University in 2014. His research focuses on converting waste and pollutants into valuable resources through green and sustainable methods. His research goal aims to enable the sustainable production of resources in a cost-effective and environmentally friendly manner. In addition to his research, Prof. Lam is passionate about education, teaching the younger generation about the impact of recycling and climate change. He has received both departmental and university teaching excellence awards.

Prof. Jin Shang completed his PhD in Chemical Engineering at the University of Melbourne in 2013. He specializes in adsorption-based gas separation technology, focusing on carbon capture, carbon removal, natural gas and hydrogen purification, and the extraction of ambient toxic gases or vapors. Prof. Shang's accolades include the 2024 Carbon Capture Award for Excellent Research and the 2022 ISTP-Bogen Young Scientist Award. He serves as an editor for several prominent journals including Cambridge Prisms: Carbon Technologies and Carbon Capture Science & Technology. He is recognized among Stanford's top 2% most highly cited scientists in 2022, 2023, and 2024.

Prof. Carol Lin is a Professor at the School of Energy and Environment at City University of Hong Kong. She has over 20 years of research expertise in the areas of Biorefinery, Waste and Biomass Valorisation, with special focus on technological advancement and development of circular waste-based biorefinery for sustainable production of chemicals, materials and fuels, that contributes to reduction of environmental burden of waste disposal and enhancement of resource efficiency. Since 2020, she has been ranked in the top 2% of scientists in the World (within the main field of 'Enabling & Strategic Technologies', and the sub-field of 'Biotechnology') in terms of career-long citation impact, according to a study published by Stanford University in 2020-2024.