

Date: 7 – 9 May 2019

Time: 9am – 6pm

Target Audience

The targeted audience could be

- Managers
- Executives
- Engineers
- Technicians
- Supervisors
- Staff who are appointed or in a position to influence the improvement of productivity and environmental performance of their Company.

Industries that can benefit from GP

- Building & Construction
- Engineering
- Facilities Management
- F&B
- Furniture
- Hotel
- Logistics
- Manufacturing
- Property Development
- Public Sector
- Retail
- Waste Management
- Other industries with interest to improve productivity and environmental performance

Workshop Introduction

Green Productivity (GP), as a business and industry practice championed by Asian Productivity Organization (APO) since 1990s, addresses both productivity and sustainability needs, so that environmental and business performance gains can be achieved simultaneously with increased efficiency, material and cost savings, and therefore profitability. Workshop will equip participants with the knowledge and tools to:

- Perform an audit of their workplace and identify opportunities to improve their productivity and environmental performance;
- Apply practical tools to analyse and improve the productivity of their operations;
- Apply practical technologies to improve the resource utilisation and environmental performance of their company; and
- Plan and implement short and mid-term measures to raise green productivity performance which could include reducing the cost of operations through better resource utilization, reducing long-term corporate liabilities, complying with government regulations, and improving corporate image that will eventually impact the company's profitability.

Benefits of Implementing GP

For Enterprises

- Reducing waste through efficient resource utilization
- Lower operational & environmental compliance costs
- Reduction of long-term liabilities and clean-up costs
- Compliance with government regulations
- Gain in competitiveness, market share & profitability

For Employees

- Greater workers' participation
- Potential in raising employee's share of value-added
- Improvement in health and safety in the workplace
- Better quality of work life

For Consumers

- High quality products and services
- Reasonable pricing
- On time delivery

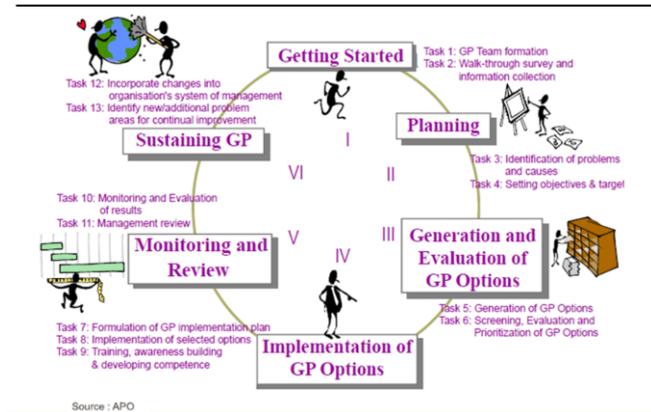


GAC Enterprise Pte Ltd
 16 Raffles Quay, #41-01
 Hong Leong Building
 Singapore 048581
 Phone: (65) 8700 0894
 GST Reg no: 201310309N

The GP Methodology

The GP methodology comprises 6 steps and 13 tasks and is based on the continuous application of the PDCA cycle to achieve Kaizen at work place. What make the approach special is that it includes an investigative walk-through process of the entire workplace and reviews resource utilization at each step through the technique of material balance. It brings about the opportunity to apply the various productivity tools and environmental techniques. GP has been successfully implemented in various industry sectors.

Steps of the Green Productivity (GP) Methodology



Successful Case of GP Implementation

This case study focuses on Intel's operations in Penang, Malaysia and the company's adoption of the Environment, Health and Safety (EHS) policy that committed them to conserving natural resources and reducing environmental waste and emissions. They implemented green productivity strategies such as waste minimization, total chemical management, 5R pollution prevention and community environmental initiatives. This led to a positive environment impact, savings generated in operational costs as well as an enhanced image and reputation.

Course Fees

Fee per pax (for WMRAS members, early bird, or group>3) ¹ :	\$1,500²
Fee per pax (for Public):	\$1,800²

¹Special rate of 17% discount for WMRAS members. Early bird deadline ends on 26 Apr 19.

²Fee excludes 7% GST. Registration is confirmed only upon full payment. For payment methods, pls refer to Annex A. **Employment and Employability Institute (e2i) training grant up to \$360/pax** is available.

³**Training certificate** will be issued upon completion of training

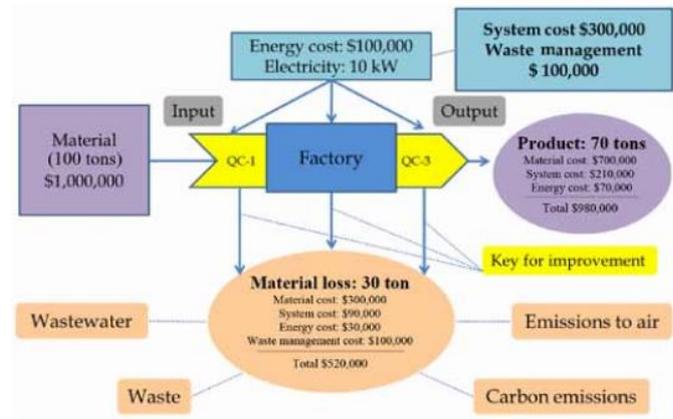
⁴Please return completed registration form to gen@gacventures.com with payment for complete registration.

For further enquiries, please call 8700-0894.

Material Flow Cost Accounting (MFCA)

This technique is mobilised under GP that help traces and quantifies the flows and stocks of materials within an organization in physical and monetary units. It is applicable to both large companies & SMEs, including service industries besides manufacturing firms.

Organizations in any sectors handling or consuming materials, energy or water can benefit greatly from MFCA.



MFCA evaluation in monetary units

Source: Alarilla, M. & Decena, J. (2009). Green Productivity Initiatives: Intel Malaysia's Experiences and Perspectives

Workshop Outline

Training Program	
Day 1	Module 1: Why Green Productivity Global Environmental Issues The Need for Green Productivity Module 2: GP Methodology & Tools GP Methodology GP Tools & Techniques
Day 2	Module 3: GP Case Study GP Options and Practices Module 4: GP Case Study and Conclusions GP Case Study – Group Work
Day 3	Module 5: MFCA Fundamentals & Demonstrating MFCA Concepts Introducing MFCA History, Concepts & Objectives Defining Key Characteristics And Principles Practising MFCA Case Activity Module 6: Building MFCA Flow Model & Cultivating Good Practices Visualizing Impacts And Plan For Improvement Case Activity Reviewing Implementation Steps Looking At Success Stories

Course Methodology

- Classroom lectures
- Group discussions with peers and experts
- Group work and presentation
- In-class case study
- Individual action plans for GP implementation
- Pre- and post-course quiz

Workshop Facilitators

Patrick Chan is MD of GAC Enterprise, with green project management experience across China, Mongolia, Philippines, Singapore and Taiwan. Patrick was a Senior Green Business Development Advisor with Asian Development Bank (ADB) and a project director for consultancy projects across Asia Pacific for ADB and Global Green Growth Institute.

He is trained as a Green Productivity Consultant and Trainer by Asian Productivity Organization (APO) sponsored by SPRING Singapore. He is also a Practising Management Consultant (PMC) and PMC (Bilingual) by Singapore Business Advisors and Consultants Council, and an ACTA certified trainer by Workforce Development Agency. He has served as lead trainer for National Environment Agency for Environment Champion training for Corporates, NGOs and Schools, training >500 corporate executives over the years.

Prior to founding his company, he was the Director of Industry Development for Singapore Business Federation, where he was the Director of Singapore Sustainability Alliance, and served in various management roles across ISCA, CBI, NUS Enterprise, KPMG and SIA. He had served as an advisor to the Centre of Innovation for Environmental and Water Technologies in Ngee Ann Poly. He was also a member of the international advisory board of World Intellectual Property Office (WIPO) Green, and Business Sustainability Committee of SPRING Singapore.

Kelvin Chan, Director and Principal Consultant of Teian Consulting International, has a strong passion for productivity, green productivity, business excellence and its related techniques. He is a Registered Management Consultant (RMC) certified under the Enterprise Singapore's Consultant Quality Initiative and a Fellow Certified Management Consultant (FCMC) of the Institute of Management Consultants (Singapore). He was awarded the Honorary Certified Productivity Practitioners Certification by the Asian Productivity Organization in 2015. He was appointed as Chief Resource Person for the APO's 3-week Training of Trainers and Consultants in Green Productivity program in Taipei, ROC from 2015 – 2018.

He served as an Associate Faculty in the School of Science and Technology of the Singapore University of Social Sciences. He is a SPRING-JPC Certified Productivity Consultant and SPRING Certified Business Excellence Consultant. He has more than 30 years of experience in Productivity-related subjects and together with his consulting team; he has assisted more than 700 companies in Singapore. He has assisted many National Productivity Organisations in Asia and completed numerous training and consultancy assignments for the APO-Africa Productivity Partnership Project funded by the Government of Japan and Taiwan. Over the years, he has trained more than 1000 Productivity Consultants / Trainers from countries like Colombia, South Africa, Tanzania, Zambia, India, Iran, Fiji, Pakistan, Indonesia, Cambodia, Lao PDR, Malaysia, Philippines, Sri Lanka, Taiwan and Thailand.

Payment Methods

FOR PAYMENT BY TELEGRAPHIC TRANSFER

Bank Name: DBS Bank Ltd

Account Name: GAC Enterprise Pte Ltd

Account Number: **014-903003-9**

Bank Address: 12 Marina Boulevard, DBS Asia Central, Marina Bay Financial Centre Tower 3, Singapore 018982

SWIFT Code: DBSSSGSG

ABA No.: 021000018

Bank charges are to be client's expenses. The net amount received in our bank account is recognized as the payment amount.

FOR PAYMENT BY CHECK

Payment by check should be crossed and made payable to "**GAC Enterprise Pte Ltd**". We accept checks only in SGD. Please deposit a check directly to our bank account and send a deposit slip via email. Please do NOT send a check to our office.

FOR PAYMENT BY CORPORATE PAYNOW

Payment by PayNow can be via the Unique Entity Number (UEN) of GAC Enterprise by keying in: **201310309N**.

REGISTRATION FORM

Closing Date: 1 Mar 2019 (Email completed form to gen@gacventures.com)

Name		Company	
Designation		Tel (HP)	
Email		Fee Payment#	<input type="checkbox"/> \$1,605 <input type="checkbox"/> \$1,926 (7% GST included)
Payment Method	<input type="checkbox"/> Online transfer <input type="checkbox"/> Check <input type="checkbox"/> PayNow Ref no: _____	Supporting Partner	Group Registration

Pls tick and provide details: payment reference no (incl. name of supporting partner and number of participants in group registration for special fee arrangement.) For group registration, the forms are to be submitted together. Cancellation is not allowed but replacement is possible.



GAC Enterprise
新加坡亚世连企业

GAC Enterprise Pte Ltd
16 Raffles Quay, #41-01
Hong Leong Building
Singapore 048581
Phone: (65) 8700 0894
GST Reg no: 201310309N