

Singapore Manufacturers' Federation (SMA) is a leading non-profit organization that remains strongly committed to help local manufacturers to enhance their competitiveness and sustain growth. As such, SMA takes an active role in identifying potential areas for improvement within the various industry sectors and seeks partnerships with suitable organizations and institutions to develop new initiatives and programmes.

SMA, in collaboration with Singapore Environment Council (SEC) and Singapore Institute of Manufacturing Technology (SIMTech), will introduce a series of programmes to promote and encourage Singapore manufacturers to adopt eco-friendly sustainable manufacturing processes and technologies, thus improving on their capabilities to meet the challenges of the future.

The Sustainable Manufacturing Programme is the first of such initiatives to be introduced to assist local manufacturers; with primary focus on making eco-efficient improvements to the manufacturing systems. The process will involve an initial evaluation of current manufacturing processes, so as to identify possible functions to reduce energy and water consumption and green-house gas emissions, and even redesigning the products and services so that they will be more environmentally-friendly.

Memoranda of Understanding are signed respectively between SMA and SEC as well as SMA and SIMTech to enlist professional assistance and advice on their core specializations towards this initiative:

- SEC will serve as a qualifying body to provide environmental audits and services for companies as well as to promote and create awareness towards environmentally-friendly practices through its industry award scheme.
- SIMTech will collaborate with SMA to assist industry with the development of technology and methodology to measure Carbon Footprint, as well as, to review and improve on manufacturing processes.

This programme is supported through the EnviroTech Capability Development Programme by SPRING Singapore – the enterprise development agency for growing innovative companies and fostering a competitive industry sector.

Interested companies are encouraged to contact the official centre, EDC @ SMA, at Tel: (65) 6826 3020 for more information.

# SUSTAINABLE MANUFACTURING PROGRAMME



## Partners:



## Supported by:



## Brief Intro of Organizations

### Singapore Environment Council (SEC)

- Develops & implements effective programmes which aim to:
  - Enforce understanding of sustainable development concepts among the young, businesses and community;
  - Affirm and endorse best practices & eco-products; and,
  - Build competency within businesses through training and learning programmes.
- Facilitates dialogue & action on environmental issues between businesses, government, and civil society; and,
- Serves as point of contact for anyone seeking information on the environment.

### Singapore Institute of Manufacturing Technology (SIMTech)

- A research institute of the Agency for Science, Technology and Research (A\*STAR);
- Develops high-value manufacturing technology and human capital to enhance competitiveness of Singapore's manufacturing industry; and,
- Has completed over 900 projects with more than 500 companies in the various sectors, including electronics, semiconductor, precision engineering, medtech, aerospace, automotive, marine and logistics.

### Singapore Manufacturers' Federation

- First established in 1932 as Singapore Manufacturers' Association and later renamed as Singapore Manufacturers' Federation;
- Leads the Singapore manufacturers in improving competitiveness and obtain sustainable growth through the development and adoption of new technologies as well as implementation of various assistance initiatives; and,
- Has over 2,600 corporate members ranging from MNCs to SMEs.

## Key Areas of Collaborations between SMa and Its Two Partners, SEC and SIMTech.



Diagram shows the key areas of collaborations between SMa and its two partners, SEC and SIMTech.

## Key Benefits of Sustainable Manufacturing Practices

- Improves process flow efficiency
- Reduces energy uses
- Improves efficiency and profit margins by converting by-product waste into higher value-end products
- Achieves sustainable growth