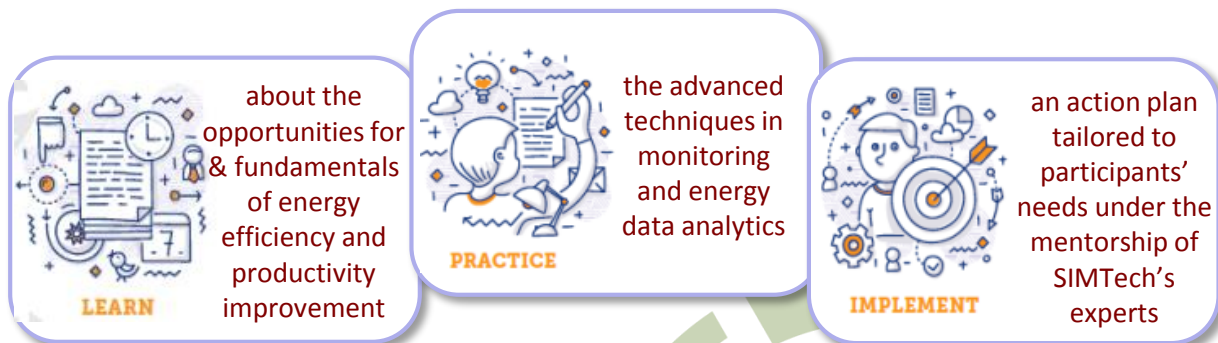


WSQ Course

SMC Sustainable
Manufacturing Centre
Embracing Sustainable Manufacturing

Energy Efficiency and Productivity Improvement through Energy Usage Pattern Analysis

As much as energy is invisible, so are the energy consumption and wastage that occur in the facilities and production processes. Businesses keen to achieve energy cost savings must first be able to visualise the energy data and obtain useful insights for the implementation of energy efficiency measures. Launched in 2015, the course, which is jointly organised by SIMTech and the Institution of Engineers Singapore (IES), is designed to help participants achieve strategic energy management skills, in addition to acquire advanced tools and statistical techniques that help them to uncover hidden information from energy usage data. The intensive, highly practical 48-hour course combines case studies, hands-on training, and benchmarking to enable participants to:



Uniqueness

- ✓ Hands-on with actual industry cases
- ✓ Address productivity and energy issues during the coursework
- ✓ Develop company's own action plan

Course Admin Info

- Commence Date: September, 2017
- Duration: 8 weeks (2 Evenings each week)
- Fee: S\$4,000 plus GST
- Up to 90% funding by SSG*

* SkillsFuture Singapore, terms and conditions applied

Who Should Attend

- Energy Managers, Facilities Managers, Supervisors, Technicians

SCEMs – 46 PDUs
Others – 27 PDUs

For enquiry, please contact:

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Organised by:



Funded by:

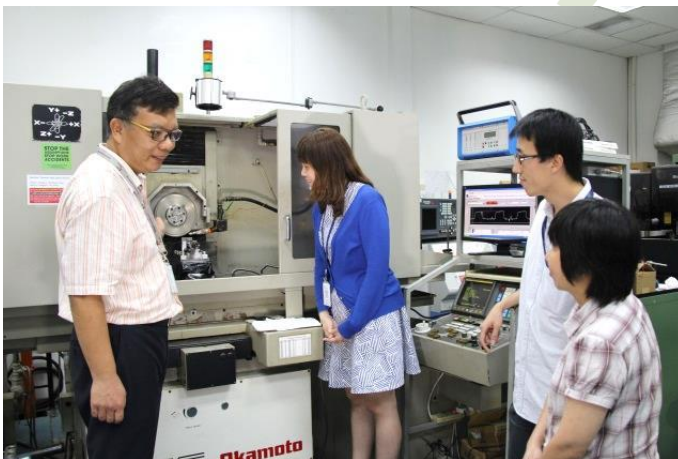


Supported by:





S1	Learn: Energy Usage Patterns – Opportunities for Productivity and Energy Efficiency Improvement
S2	Learn: Energy Efficiency Management Methodology and Efficiency Monitoring and Analysis Systems
S3	Learn: Energy Efficiency Management Case Studies: Facilities and Other Processes
S4	Learn: Electrical Instrumentations for Energy Management
S5	Learn: Benchmarking Methodologies for Energy Management
S6	Practice: Data Mining Methods for Energy Usage Patterns Discovery
S7	Practice: Energy Usage Patterns and Operation Modes Identification for Equipment Utilization Improvement
S8	Practice: Statistical Modeling for Correlation Analysis between Energy Usage Pattern & Product Quality
S9	Practice: Correlation Analysis for Improving Energy Efficiency in Chiller
S10	Implement: E2MAS Implementation Fundamentals: Survey Requirements, System Installation and Data Collection (@SIMTech)
S11-12	Implement: E2MAS Actions in Company Site: Data Collection and Processing & Energy Efficiency Analysis
S13	Implement: Identification of Productivity and EE Improvement Opportunities
S14	<ul style="list-style-type: none">• Underpinning Knowledge Assessment
S15	<ul style="list-style-type: none">• Project Presentation



Left: Participants are having hands-on sessions on the machining energy monitoring system.

Top: Recent batch (completed in September 2016) of 22 industry participants, together with course instructors in the SIMTech's hands-on laboratories.