



The Program on Productivity Improvement – TPPI –

-Energy conservation through productivity enhancement as well as the improvement of operation practices in production lines-

【Course Features】 ※All the curriculums will be conducted in English

Learn about the 3 approaches (productivity improvement, operational improvement, and facility improvement) and specific techniques to conserve energy in the production process in the automobile, industrial machinery and electrical machinery fields and aim at realizing energy-saving in the production sites at your own companies.

Three approaches to conserve energy in the production process

Productivity Improvement	Operational Improvement	Facility Improvement (Introduction of high-performance equipment)
<ul style="list-style-type: none"> 3 “MU” reduction (<i>Muda, Mura, and Muri</i>) 5S, <i>Gemba Kaizen</i> Visual management Operational improvement and cost reduction by IE Reduction of failures and quality improvement Reduction of cycle time Just-in-time, etc. 	<ul style="list-style-type: none"> Energy conservation measures for <ul style="list-style-type: none"> A) Power receiving and distribution equipment and contract demand reduction B) Air conditioning and lighting C) Pumps and fans D) Air compressors, and boilers Optimization of capacity, operation and number of units of production equipment, etc. 	<ul style="list-style-type: none"> Solar panels High-performance boilers Gas turbine cogeneration system Air conditioners equipped with invertors Industrial heat pumps High-performance air compressors Electric power meters and demand monitors, etc.
<p>Visualization and analysis of data, promotion of efficiency and optimization by utilization of IT, IoT etc.</p>		

Date : 5 – 18 February 2020 (2 weeks)

Venue : AOTS Kansai Kenshu Center (Osaka, Japan)

Target Participants : Senior managers, middle managers and engineers who are working for companies in the automobile, industrial machinery and electrical machinery fields (three businesses) or companies supplying to the companies in the three businesses in Asia or the Middle East and should be controlling or in charge of manufacturing lines of products in the three businesses or products aimed at the three businesses.

Deadline: **9 December 2019 (Mon)**

Contact Information

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Schedule (Tentative)

***All lectures/visits will be conducted in English.**

Date	Morning Session	Afternoon Session
4 Feb. (Tue)	(Arrival in Japan)	
5 (Wed)	Opening Ceremony / Orientation 【Lecture】 The roles and responsibilities of manufacturing industry to realize a reduced carbon society	【Lecture】 Characteristics of Japanese-style production management
6 (Thu)	【Lecture & exercise】 5S and visual management	【Lecture】 Reduction of process failures through quality improvement
7 (Fri)	【Lecture & exercise】 Procedures for waste reduction and <i>Gemba Kaizen</i>	
8 (Sat)	【Lecture & exercise】 Energy-saving by the improvement of site operational practices (1)	
9 (Sun)	Day Off	
10 (Mon)	【Lecture & exercise】 Energy-saving by the improvement of site operational practices (2)	
11 (Tue)	【Lecture & exercise】 IT-supported production process management and control, and productivity improvement	
12 (Wed)	【Lecture】 Quality Control Activities at <i>Gemba</i>	
13 (Thu)	Study Tour	【Visit】 Operation improvement
14 (Fri)		【Visit】 Productivity improvement
15(Sat)	Day Off	
16(Sun)	Day Off	
17 (Mon)	【Lecture】 Energy-saving improvement by the introduction of high-performance equipment	【Lecture】 Formulation of action plans and consultation
18 (Tue)	Final Report Presentation	Final Report Presentation/ Closing Ceremony
19 (Wed)	(Departure from Japan)	

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