



The Program on Productivity Improvement for Vietnam [VNIP]

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

【Course Features】 ※All the lectures/visits will be conducted in Vietnamese.

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 in 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.
Visualization and analysis of data, promotion of efficiency and optimization by utilization of IT, IoT etc.		

Date : 12 – 25 February 2020 (2 weeks)

Venue : AOTS Kansai Kenshu Center (Osaka, Japan)

Target : 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 Vietnam 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 the lectures/visits will be conducted in Vietnamese.**

Date	Morning Session	Afternoon Session
11 Feb. (Tue)	(Arrival in Japan)	
12 (Wed)	Opening Ceremony / Orientation 【Lecture】 Low Carbon Society and Challenge by Japanese Companies	【Lecture】 Characteristics of Excellent Japanese Manufacturing Companies
13 (Thu)	【Lecture and exercise】 How to proceed 5S Activities at Production Sites	【Lecture】 Energy-Saving Activities at Production Sites (1)
14 (Fri)	【Lecture and exercise】 Energy-Saving Activities at Production Sites (2) /Guidance for Action Plan	
15 (Sat)	Day Off	
16 (Sun)	Day Off	
17 (Mon)	【Lecture and exercise】 Productivity Improvement through “KAIZEN” and “Waste Elimination” (1)	
18 (Tue)	【Lecture and exercise】 Productivity Improvement through “KAIZEN” and “Waste Elimination” (2)	
19 (Wed)	【Visit】 Case Study of 5S Activities at Production Sites	【Visit】 Case Study of Operational Improvement and <i>Kaizen</i>
20 (Thu)	Study Tour	【Visit】 Case Study of Innovative Production Management using IT
21 (Fri)		【Visit】 Case Study of Quality Management
22 (Sat)	Day Off	
23 (Sun)	Day Off	
24 (Mon)	【Lecture】 IoT Utilization at Production Sites	Preparation for Presentation
25 (Tue)	Final Report Presentation: Action Plan on Production Improvement & Energy Conservation / Closing Ceremony	
26 (Wed)	(Departure from Japan)	

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