



## The Program on Productivity Improvement for Indonesia [IDPI]

-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 Indonesian**

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"> <li>3 "MU" reduction (<i>Muda, Mura, and Muri</i>)</li> <li>5S, <i>Gemba Kaizen</i></li> <li>Visual management</li> <li>Operational improvement and cost reduction by IE</li> <li>Reduction of failures and quality improvement</li> <li>Reduction of cycle time</li> <li>Just-in-time, etc.</li> </ul>	<ul style="list-style-type: none"> <li>Energy conservation measures for               <ul style="list-style-type: none"> <li>A) Power receiving and distribution equipment and contract demand reduction</li> <li>B) Air conditioning and lighting</li> <li>C) Pumps and fans</li> <li>D) Air compressors, and boilers</li> </ul> </li> <li>Optimization of capacity, operation and number of units of production equipment, etc.</li> </ul>	<ul style="list-style-type: none"> <li>Solar panels</li> <li>High-performance boilers</li> <li>Gas turbine cogeneration system</li> <li>Air conditioners equipped with invertors</li> <li>Industrial heat pumps</li> <li>High-performance air compressors</li> <li>Electric power meters and demand monitors, etc.</li> </ul>
<div style="border: 1px solid black; border-radius: 15px; padding: 5px; background-color: #fff9c4; display: inline-block;">           Visualization and analysis of data, promotion of efficiency and optimization by utilization of IT, IoT etc.         </div>		

Date : 2-13 March 2020 (2 weeks)

Venue : AOTS Tokyo Kenshu Center (Tokyo, 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 Indonesia and should be controlling or in charge of manufacturing lines of products in the three businesses or products aimed at the three businesses.

Deadline: **13 January 2020 (Mon)**

## Contact Information

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## Schedule (Tentative)

**\*All lectures/visits will be conducted in Indonesian.**

Date	Morning Session	Afternoon Session
1 Mar. (Sun)	(Arrival in Japan)	
2 (Mon)	Opening Ceremony / Orientation 【Lecture】 Roles and responsibilities of manufacturing industry to realize a reduced carbon society	【Lecture】 Characteristics of Japanese-style production management
3 (Tue)	【Lecture】 5S and Visual management	【Lecture】 Reduction of process failures through quality improvement
4 (Wed)	【Lecture & Exercise】 Procedures for waste reduction and <i>Gemba Kaizen</i> (*) to improve productivity	
5 (Thu)	【Lecture & Exercise】 Energy-saving by the improvement of site operational practices	【Lecture & Exercise】 Vital points of implementing 5S and <i>Gemba Kaizen</i> (*) in Indonesia
6 (Fri)	【Lecture】 IT-supported production process management, control and productivity improvement	
7 (Sat)	Day Off	
8 (Sun)	Day Off	
9 (Mon)	【Visit】 Productivity improvement	
10 (Tue)	Study Tour 【Visit】 Operational improvement	【Visit】 IT utilization
11 (Wed)	【Visit】 Quality management	
12 (Thu)	【Lecture】 Energy-saving improvement by the introduction of high-performance equipment	【Lecture】 Formulation of action plans and consultation
13 (Fri)	Final Report Presentation: Action plan on productivity improvement & energy conservation / Closing Ceremony	
14 (Sat)	(Departure from Japan)	

\**Gemba Kaizen*: Continuous improvement at the shop floor

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