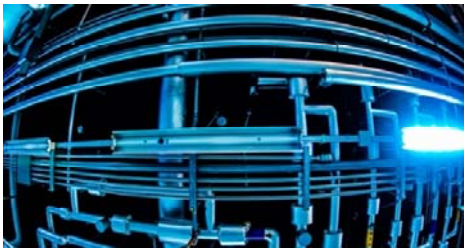
Carbon Reduction Technology Promotion Program
Partially Subsidized by Japanese Government

The Program on Productivity Improvement for India – INPI–

-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)
• 3 "MU" reduction (*Muda, Mura, and Muri*) • 5S, *Gemba Kaizen* • Visual management • Operational improvement and cost reduction by IE • Reduction of failures and quality improvement • Reduction of cycle time • Just-in-time, etc.	• Energy conservation measures for 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.	• 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 : 4– 17 March 2020 (2 weeks)

Venue : AOTS Tokyo Kenshu Center (Tokyo, 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 India 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 English.**

Date	Morning Session	Afternoon Session
3 Mar. (Tue)	(Arrival in Japan)	
4 (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 and Toyota Production system(TPS)
5 (Thu)	【Lecture】Base of TPS : Complete elimination of waste, productivity improvement of continuous Kaizen activity	
6 (Fri)	【Lecture】Two Pillars of TPS / Just in Time (JIT) and automation	【Visit】Kaizen activities at *Gemba*
7 (Sat)	Day Off	
8 (Sun)	Day Off	
9 (Mon)	【Lecture & exercise】Energy-saving by the improvement of site operational practices	【Lecture】Energy-saving improvement by the introduction of high-performance equipment
10 (Tue)	【Lecture & exercise】IT-supported production process management and control, and productivity improvement	
11 (Wed)	Study Tour (Transit)	【Lecture & exercise】Establishing standardized work and procedures for kaizen activity by teams
12 (Thu)	Study Tour 【Lecture & exercise】Tact time setting and improvement of waste elimination activities	
13 (Fri)	Study Tour 【Visit】Productivity improvement at *Gemba*	(Transit)
14(Sat)	Day Off	
15(Sun)	Day Off	
16 (Mon)	【Visit】Energy-saving activities at *Gemba*	【Lecture】Formulation of action plans and consultation
17 (Tue)	Final Report Presentation	Final Report Presentation/ Closing Ceremony
18 (Wed)	(Departure from Japan)	

AOTS Tokyo Kenshu Center

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