

PHILIPPINE SUGAR TECHNOLOGISTS ASSOCIATION, INC.
FACTORY ENGINEERING DIVISION
APPLIED TECHNOLOGY ON ENERGY MANAGEMENT AND UTILIZATION
(ATEMU BATCH 14)
MAY 15 – 19, 2017

Objective: Plant efficiency to include mill & boiler, powerhouse & instrumentation.

Day 1 (May 15, 2017)

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| 8:00 A.M. – 9:00 A.M. | <p>Registration and Opening Ceremonies</p> <ul style="list-style-type: none"> • Opening Remarks Engr. Leandro E. Pineda VP & Director, PHILSUTECH Factory Engineering Division • Introduction of the Course Engr. Jesus Edmundo B. Cardeñas Director, PHILSUTECH Factory Engineering Division • Ground/House Rules & Introduction of Participants Ms. Haydee V. Rivera Corp. Secretary & Administrative Manager |
| 9:00 A.M. – 9:30 A.M. | Pre-Test |
| 9:30 A.M. – 10:30 A.M. | <p>Module 1 “Overview and Status of the Philippine Sugar Industry” By: Ms. Rosemarie S. Gumerá, Dept. Manager III, Planning & Policy Dept.(Luzon), Sugar Regulatory Administration</p> |
| 10:30 A.M. – 12:00 NN | <p>Module 2 “Energy Management Boilers & Steam Raising” Mr. Ian Asher, Consultant - Consultant, Water, Process & Chemical Cleaning Singapore, Middle East & S.E. Asia Transworld Trading Co. Inc.</p> |
| 12:00 NN – 1:00 P.M. | LUNCH |
| 1:00 P.M. - 3:30 P.M. | <p>Module 3 “Efficient Boiler Operation” By: Engr. Simon P. Turno III Factor Operations Manager, Central Azucarera Don Pedro, Inc.</p> |
| 3:30 P.M. – 5:30 P.M. | <p>Module 4 “Energy Optimization and Applied Practices” Engr. Nathaniel Lagtapon, Technical Specialist Spirax Sarco</p> |
| 5:30 P.M.– 5:50P.M. | Examination |

5:50 P.M.- 6:30 P.M.

Product Presentation

“The Real World of Bearings”

By: Engr. Armando “Degie” De Jesus, Deputy Chief Representative
NSK International (Singapore) Pte. Ltd.

6:30 P.M. – 9:00 P.M.

Fellowship Cocktail

Day 2 (May 16, 2017)

8:00 A.M – 10:00 A.M.

Module 5

“Energy Management System/ISO 50001 and Systems Optimization

By: Engr. Janu P. Encarnacion, PME, RMP

Consultant /Engineer

UNIDO-Philippine Industrial Energy Efficiency Project

10:00A.M- 12:00NN

Module 6

“Key Performance Indicator (KPI) of Energy Utilization”

By: Engr. Ireneo I. Tangon, Jr., Electrical Superintendent

Busco Sugar Milling Company, Inc.

12:00 NN. – 1:00 P.M.

LUNCH

1:00 P.M. – 3:00 P.M.

Module 7

Application of Motors and Variable Frequency Drives

By: Engr. Rodolfo Licu

Brightline Electrical Enterprise/Pelican Ind'l Sales

3:00 P.M. – 5:00 P.M.

Module 8

“Mill Automation”

By: Engr. Rey Cabalfin, Sr. Manager

Central Azucarera Don Pedro, Inc.

5:00 P.M. – 5:20 P.M.

Examination

5:20 P.M. - 6:00 P.M.

Product Presentation

Day 3 (May 17, 2017)

8:00 A.M. – 10:30 A.M.

Module 9

“Mill Engineering and Turbine Motor Operation”

By: Engr. Ramil A. Paig

Mills Superintendent, Busco Sugar Milling Company, Inc.

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| 10:30 A.M. – 12:30 P.M. | Module 10 “Energy Conservation in the Sugar Industry” By: M. Pandu Panga Rao, Vice President Technical M/S Shrijee Process Engineering Works Ltd. India |
| 12:30 P.M. – 1:30 P.M. | LUNCH |
| 1:30 P.M. - 3:30 P.M. | Module 11 “Condition Monitoring through Vibration Analysis and Lube Oil Analysis” By: Mr. Arnolfo V. Moncada, General Manager Services & Solutions SKF Philippines Inc. |
| 3:30 P.M. – 5:30 P.M. | Module 12 “Energy Management to the Mill Crushing with Electro Hydraulic Drive” By: Mr. Mattias Freddiksson Manager-Sugar & Ethanol Industrial Sector Bosch Rexroth, Sweden |
| 5:30 P.M. – 5:50 P.M. | Examination |

Day 4 (May 18, 2017)

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| 7:00 A.M. | Leave Bacolod for SONEDCO |
| 10:00 A.M. – 12:00 NN | Module 13 “Sugar Industry Co-Generation Experience” By: Engr. Jose E. Buenconsejo Universal Robina Corporation – Sugar & Renewables |
| 12:00 NN – 1:00 P.M. | Lunch |
| 1:00 P.M. | Plant Tour / URC – SONEDCO |

Day 5 (May 19, 2017)

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| 8:00 A.M. – 8:30 A.M. | Examination |
| 8:30 A.M.- 12:00NN | Case Study Presentation/Panel Discussions and Interactions |
| 12:00 NN – 1:00PM | Lunch |
| 1:00 PM. | Awarding of Certificates & Closing Remarks |

Panelist:

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| 1. Engr. Leandro E. Pineda | - Crystal Sugar Company, Inc. |
| 2. Engr. Jesus Edmundo B. Cardenas | - Victorias Milling Company, Inc. |