Process Plant Optimisation & Energy Conservation

Reducing Process Plant Energy and Maintenance Costs

12 - 16 July 2020
29 November - 03 December 2020
Dubai, United Arab Emirates
WHY CHOOSE THIS TRAINING COURSE?

This intensive AZTech training course will provide delegates with the required skills to ensure cost effective operation and maintenance for their process plant. Optimum modes that produce the most efficient results, consistent with safe and reliable operation will be studied in detail.

Plant energy consumption and reliability is the foundation of process plant optimisation. For optimisation benefits to be sustainable, production interruptions must be kept to a minimum, which requires effective management of degradation processes that affect equipment and systems and effective inspection and maintenance strategies, plans and methods. Plant optimisation can be an effective way to achieve improved profitability without the large investment associated with building a new plant.

This AZTech training course will feature:

- Process Overall Plant Effectiveness (OPE)
- Best Practices in Operation and Maintenance
- Business Sustainability and Related Factors
- Energy Conservation Opportunities
- Strategies for Improving Plant Profitability

HOW WILL THIS TRAINING COURSE BE PRESENTED?

This AZTech training course will utilise a variety of proven adult training techniques to ensure maximum understanding, comprehension and retention of the information presented; this includes PowerPoint presentation.

The goals of each participant are discussed to ensure their needs are fulfilled, as far as possible. Questions are encouraged throughout, particularly at the daily wrap up sessions. This provides opportunities for participants to discuss specific issues and, if possible, find appropriate solutions.

WHAT ARE THE GOALS?

By the end of this AZTech training course, participants will be able to:

- Recognize and understand overall plant effectiveness (OPE)
- Apply the business focus to ensure sustainable plant profitability
- Appraise the most cost-effective operation and energy saving methods
- Describe the managerial tools needed to effectively optimize plant operations
- Implement the most appropriate operation and maintenance strategies
- Determine and measure key performance indicators (KPIs) for their plant
- Identify and apply effective procedures to improve those KPIs

WHO IS THIS TRAINING COURSE FOR?

This AZTech training course will benefit all levels of personnel in a process plant environment. It will enable them to understand the design considerations, construction details and operational parameters associated with process heat exchangers.

This AZTech training course is suitable to a wide range of process plant professionals but will greatly benefit:

- Process Plant Supervisors
- Plant Engineers and Operators
- Production and Operation Engineers
- Maintenance Engineers and Technicians
- Engineering and Technical personnel involved in improving process plant, petrochemical plant and refinery profitability and energy efficiency

www.aztechtraining.com
THE COURSE CONTENT

Day One: Appreciation of Process Plant Effectiveness

- The Concept of Overall Plant Effectiveness (OPE)
- Constraints in Optimization Operation, Economy and Environment
- Relationship Between Business and Plant Effectiveness
- Effects of Equipment Failures on Business
- Impacts of Operation and Maintenance on Plant Effectiveness
- Determination of Process Plant Availability
- Practical Case Study

Day Two: Process Plant Reliability and Improvement Techniques

- Process Plant Reliability (PPR) and Effectiveness (PPE)
- Calculation of Process Plant Reliability
- Determination of Process Plant Effectiveness
- Parameters Influence Plant Reliability
- Parameters Influence Plant Effectiveness
- Plant Reliability and Effectiveness Improvement Methods
- Case Study

Day Three: Energy Savings Opportunities and Strategies

- Energy Use in Process Plant and Petrochemical Industry
- Best Practices in Process Plant Energy Management
- Heat Integration Methods
- Pinch Method and Improvement Procedure
- Thermal Power Plants Energy Saving Options
- Obstacles for Energy Management Programs
- Case Study

Day Four: Monitoring and Failure Prevention Methods

- Methods for Minimizing Static Equipment Failure
- Strategies for Mitigating Rotating Equipment Down Time
- Condition Monitoring Methods
- Non-Destructive Examination (NDE) Techniques
- Determination of Equipment Life Time and Remaining Life
- Methods for Extending Equipment Cycle and Service Time
- Detailed Case Study

Day Five: Best Practices in Operation & Maintenance Methods

- Cost-effective Operation and Maintenance Strategies
- Piping System, Tanks and Pressure Vessels
- Heat Exchangers, Boilers and Cooling Towers
- Turbomachinery: Pumps and Compressors
- Project and Spare Parts Management and Budgeting
- Practical Case Study
- Summary and Course Closure
Process Plant Optimisation & Energy Conservation
Reducing Process Plant Energy and Maintenance Costs

<table>
<thead>
<tr>
<th>DATE</th>
<th>VENUE</th>
<th>FEES(USD)</th>
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<tbody>
<tr>
<td>12 - 16 Jul 2020</td>
<td>Dubai - UAE</td>
<td>$4,950</td>
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<td>29 Nov - 03 Dec 2020</td>
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**REGISTER NOW**

*This fee is inclusive of Documentation, Lunch and Refreshments and exclusive of 5% UAE VAT*

Complete & send by fax/mail to address given below.
Please use BLOCK CAPITALS.

**REGISTRATION DETAILS**

FAMILY NAME:
FIRST NAME:
POSITION: COMPANY:
MAILING ADDRESS:

TELEPHONE: MOBILE:
FAX: EMAIL:

**AUTHORISATION**

AUTHORISED BY:
POSITION: EMAIL:
TELEPHONE: FAX:
POSTAL ADDRESS:

**MODE OF PAYMENT**

☐ PLEASE INVOICE MY COMPANY
☐ PLEASE INVOICE ME
☐ PLEASE FIND ENCLOSED A CHEQUE PAYABLE TO AZTECH
☐ ONLINE / CREDIT CARD

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Our training portfolio will provide you a number of seminars and courses to choose from depending on your organisational goals and personal development objectives.

**HOTEL ACCOMMODATION**

Hotel accommodation is not included in the Registration Fee. A reduced corporate rate and a limited number of rooms are available for attendees wishing to stay at the hotel venue. Please make your request for accommodation at least 3 weeks prior to the commencement of the course.

**EVENT DISCLAIMER**

We reserve the right to cancel or postpone a seminar or related event, change venue, substitution of the instructor and alter the course content at our sole discretion. If this occurs, our responsibility is limited to a refund of any registration fee(s) already paid. We are not responsible for airline tickets, hotels costs, other tickets or payments, or any similar fee penalties or related or unrelated losses, costs and/ or expenses registrant may incur or have incurred as a result of any trip cancellations or changes.

**CANCELLATION & SUBSTITUTION**

You must notify the Registrar of cancellations at least 2 weeks before a scheduled seminar in order to be eligible for a credit. If you cannot attend, you may send a replacement from your organisation at no charge. There is a $250 handling charge for all cancellations or rescheduling. We reserve the right to cancel a seminar due to low enrollment. All registrants will be notified in advance and a full refund will be provided upon request.

**CERTIFICATION**

AZTech Certificate of Completion for delegates who attend and complete the training course

**4 WAYS TO REGISTER**

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