



PE310: Efficiency Enhancement and Troubleshooting in Production Operations

Latest Technology for Enhancing the Process Plant Performance and Safety

Training Description:

This training course is a must if your company's goals include reducing costs and preserving the lives of your employees because it delivers a wide range of pro-active, efficient troubleshooting skills. It has been proven that technical competence alone is no longer enough to ensure consistent operational performance. Excellent troubleshooting skills are considered a core competency for 'Best-in-Class' modern industrial companies. In the competitive world that we are living in, it is essential that we optimize our efforts to secure the desired outcomes, and this training course will equip the delegate with the basic tools and understanding to make that happen.

This training course will highlight:

- The understanding of terminologies, tools, and techniques
- The application of a standard "blue-print" for problem analysis and resolution
- How to utilize maturity indexing, planning, and protocols
- Learning the "human factors" as a source of error

Training Objectives:

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

- ✓ Appreciate the difference and consequences between pro-active and reactive problem solving
- ✓ Develop a structured approach to troubleshooting and problem solving
- ✓ Understand continuous improvement in the way you run your processes
- ✓ Implement teamwork and leadership principles, support, and cooperation practices
- ✓ Understand work practices which "allow" success in troubleshooting and problem solving

Training Designed for:

This course is intended for Employees who are responsible for leading and directing people to achieve and improve productivity levels, those faced with the challenge of solving plant related problems, Production, Maintenance Engineering and Process Engineering personnel, Supervisors who are involved in the Operations / Maintenance function, Planners, Coordinators, Engineers, and Technologists

Training Requirement:

"Hand's on practical sessions, equipment and software will be applied during the course if required and as per the client's request."

Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client's learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Program:

DAY ONE:

- ❖ Basics of Problem Solving
 - Principles of problem solving
 - Procedures of problem solving
 - Methods and documents of problem solving

- Problem area and detailed procedures (indirect area, manufacturing process problems, product problems, lessons learned)
- Performance standard (strategic, operational, individual)
- Critical relationships

DAY TWO:

❖ Tools & Techniques – Practical Experience

- Application of decision logic
- Relationship analysis
- Relationship between plant species richness and primary productivity
- Problem analysis and synthesis
- Practical use of tools and techniques
- Project selection methods

DAY THREE:

❖ Maximizing the Contribution of People in Process Plants

- The machine-human connection
- A high-quality digital shift handover process
- Embrace technology and support human factors
- Working practices – empowerment or impairment?
- Individual motivators (external vs. internal motivation)
- Developing leadership competence
- Efficiency enhancement

DAY FOUR:

❖ Operator, Maintainer, Designer Interface in Process Plants

- Process plant and machinery specific issues
- Performance (impacting factors, performance defined in terms of speed, quality, and cost)
- Cross functional problem solving
- Development of maintenance strategy
- Life cycle analysis, design for operation, design for maintenance
- Strategies, planning, and protocols

DAY FIVE:

❖ Case Studies

❖ Open Forum

- Cross function team working
- Configuration management
- Development of standards and Key Performance Indicators
- Auditing the process to a dynamic standard

❖ Course Conclusion

❖ POST-ASSESSMENT and EVALUATION

Training Certificate(s):

CMCT Internationally recognized certificate(s) will be issued to each participant who completed the course.



Training Fees:

TBA as per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Gamification, Software & General Discussions
- Pre and Post Test

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

For training registrations or in-house enquiries, please contact:

Aisha Relativo - Training & Career Development Manager

aisha@cmc-me.com / training@cmc-me.com

Tel.: +971 2 665 3945 or +971 2 643 6653 | Mob.: +971 52 2954615