

Scandinavian Academy
Training Center

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Riyadh - Al Khaleej District - Sheikh Abdul Aziz Bin Abdul Rahman Bin Bishr Street - 13223 - Office No. 5 | P.O.BOX : 13224

Course: Process Plant Troubleshooting & Engineering Problem Solving

Code	City	hotel	Start	End	price	Language - Hours
CM-545SA	Alula	Hotel Meeting	2027-08-01	2027-08-05	13950 SR	En - 25

Why Choose this Course?

This 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 course will equip the delegate with the basic tools and understanding to make that happen.

This course will feature:

- The understanding of terminologies; tools and techniques
- Apply a standard "Blue-Print" for problem analysis and resolution
- How to utilize Maturity Indexing; Planning; and Protocols
- Useful Case Studies; Exercises and Analysis
- Learning the "Human Factors" as a Source of Error

What are the Goals?

By the end of this course, 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

Who is this Course for?

This course is suitable to a wide range of professionals but will greatly benefit:

- 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

How will this be Presented?

This course will utilise a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. This includes a facilitative style with a combination of lecture, practical experience in the use of techniques, case studies and a high level of lively debate and sharing of ideas. Delegates will be encouraged to introduce problems of their own for discussion and analysis.

The Course Content

Day One

Introductory Concepts

- Defining the nature of problems
- Utilising a Common Terminology
- Techniques introduction
- Tools introduction
- Levels of Performance Standard
- Critical Relationships

Day Two

Tools & Techniques – Practical Experience

- Application of Decision Logic
- Practical Maturity Indexing
- Relationships Analysis
- Problem Analysis and Synthesis
- Practical Use of Tools and Techniques
- Project selection methods

Day Three

People Issues

- Working practices – empowerment or impairment?
- Group dynamics
- Individual motivators: External vs. Internal Motivation
- Developing Leadership Competence
- Managing change via the Transition Matrix

Day Four

Operator, Maintainer, Designer Interface

- Cross functional problem solving
- Development of Maintenance strategy
- Life Cycle Analysis, Design for Operation, Design for Maintenance
- Variability Analysis
- Strategies; Planning; and Protocols
- Effect of improved “Fit” between critical parameters in Operations

Day Five

Open Forum

- Concepts, Tools and Techniques applied to problems
- Configuration Management
- Commercial Programs
- The Critical stages of Data Maturity
- Case Studies and Action Plans
- Wrap up

The Scandinavian Academy for Training Center adopts the latest scientific and professional methodologies in training and human resource development, aiming to enhance the efficiency of individuals and organizations. Training programs are delivered through a comprehensive approach that includes:

- Theoretical lectures supported by PowerPoint presentations and visual materials (videos and short films).
- Scientific evaluation of participants before and after the program to measure progress and knowledge acquisition.
- Brainstorming sessions and practical role-playing to simulate real-life scenarios.
- Case studies tailored to align with the training content and participants work nature.
- Assessment tests conducted at the end of the program to evaluate the achievement of training objectives.

Each participant receives the training material (both theoretical and practical) in printed form and saved on a CD or flash drive. Detailed reports, including attendance records, final results, and overall program evaluations, are also provided.

Training materials are prepared professionally by a team of experts and specialists in various fields. At the end of the program, participants are awarded a professional attendance certificate, signed and accredited by the Scandinavian Academy for Training Center.

Program Timings: 9:00 AM to 2:00 PM

The program includes:

- A daily buffet provided during the sessions to ensure participants comfort.
- A closing ceremony on the final day to distribute certificates and celebrate participants achievements.
- **Note: All prices are exclusive of 15% Value Added Tax (VAT).**

Our Success Partners

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