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03 – 04 March, 2014, Birmingham, UK

Intensive Seminar: Reliability and Maintenance Management for Chemicals and Petrochemicals

This Master-Class Will Help You:

- » Improve utilisation and performance
- » Reduce capital costs
- » Extend asset life
- » Reduce asset-related operating costs
- » Improve return on assets (ROA)
- » Deliver day-to-day tasks more effectively



**Presentations from
Bayer and SABIC**

Testimonials from Our Past Participants:

“A beneficial, challenging learning experience, perfectly organized” – BASF

“Enjoyed levels of discussion around the presentations and particularly the panel discussions” – Celanese

“Very valuable preparation for me and my team to master our upcoming Shutdowns” – Bayer Material Science

“Some interesting facts to follow up which will have potential for us” – BP Chemicals

“Very informative and enjoyable event, at a well-equipped venue” – ConocoPhillips

A Master-Class on Effective Maintenance Management

- » Fundamentals of decision making in maintenance and reliability
- » Understanding and developing a maintenance strategy, planning and organisation
- » Delivering day-to-day tasks effectively, identifying and solving issues before they occur
- » Human factors, resourcing projects, leadership, people and contractor management
- » Goals, methodologies, tools, and trends in achieving excellence
- » Cost considerations and asset lifecycle costing
- » Optimising the turnaround process – phases, strategy, execution and closing
- » Reporting, benchmarking, performance management, and KPIs

Sponsored By:





Dear Colleague,

As the competitiveness in the chemicals and petrochemicals industry increases, it is key for plant operators to deliver efficient, reliable, and commercially successful operations under considerable pressure.

It is therefore essential for you, as an integral member of the asset management team, to have the competitive skills necessary to select the right course of action, readily spot problems, identify areas to reduce costs, minimise downtime, increase productivity, extend asset life and subsequently improve ROA. A great way to learn these skills is to attend this intensive and highly interactive, two-day seminar.

We aim to equip you with the tools and knowledge necessary to perform day-to-day activities more effectively, understand the big picture when it comes to maintenance management, make informed decisions, think ahead, and crucially, gather best practices from peer companies.

Course Highlights:

- » Delivered by international speakers who collectively bring over 40 years of industry-specific expertise, the course will provide you with proven approaches, management techniques, real-world examples, and fresh ideas that you can take away and implement in your organisation
- » **Industry Presentation 1:** Kevin McQuillan from SABIC Manufacturing will provide you with a step-by-step guide into improving the efficiency of maintenance delivery in a chemical plant
- » **Industry Presentation 2:** Christos Christoglou from Bayer will dive deeper into implementing risk based inspection as a way to increase asset reliability
- » Interactive sessions such as group discussions on improving efficiency, turnaround management, contractor management and exercises to help you learn from like-minded professionals and benchmark your processes against that of the industry
- » Informal evening of drinks and dinner to help you get to know your peers better and build lasting business relationships

Take advantage of this fantastic learning opportunity to invest in yourself, build on your expertise, and gain the confidence and competitive edge necessary to make effective decisions from positions of responsibility.

We look forward to meeting with you on the 3-4 of March in Birmingham.

Sincerely,

David Woods
Project Manager and TA Trainer, T.A. Cook Consultants

Who Should Attend?

This seminar is directed at all personnel who are eager to acquire competitive skills, upgrade personal qualifications, take on further responsibilities, or prepare for managerial positions.

Specifically, from the chemical and petrochemical industry, it would be extremely valuable to:

- » Maintenance managers who wish to update and re-tune their knowledge
- » Recent maintenance and reliability managers
- » Maintenance and reliability engineers
- » Plant, asset, and equipment managers
- » Supervisors and technicians, moving to a managerial position
- » HSE managers and engineers
- » Cost, savings, and profitability related roles



Seminar Facilitators

David Woods, Project Manager and TA Trainer, T.A. Cook Consultants

David Woods specializes in both asset performance and turnaround management. As an experienced Project Manager and Trainer, David's focus has primarily been upon maintenance improvement programmes and initiatives and shutdown and turnaround management optimization. His area of expertise lies within the management performance domain, developing improved understanding and execution of planning and delivery control through increased stakeholder interaction and utilization of management systems.

Gaining a wide range of experience in daily operational activities and problems, David has worked on maintenance programmes in the USA and Europe, identifying areas of opportunity and implementing improvement initiatives both in the "front-end" and during execution. David entered consulting in the early 1990's, after working in the construction industry in the contract and project management fields. He has held senior management positions with leading consultancies in the USA and Europe, where his responsibilities have ranged from Project Management to Executive Development. David has been involved in performance improvement projects within a wide range of industries. Nevertheless, his core competency still remains within maintenance management. David is an engaging and entertaining presenter, trainer and moderator, having chaired and presented at numerous conferences, as well as leading workshops, seminars and training courses globally.

Dirk Frame, Managing Partner, T.A. Cook Consultants

Dirk Frame is Managing Partner at T.A. Cook Consultants. A Professional Engineer with an MBA from Cranfield School of Management. He has over 25 years' experience across many countries and is an expert in maintenance and capital processes in asset-heavy businesses. Following an early career in the automotive sector and senior positions at Proudfoot Consulting and Celerant Consulting, Dirk has helped propel T.A. Cook to the forefront of Asset Performance Management consulting across Europe and the Americas since 2004.

Industry Experts

Kevin McQuillan, Special Projects Director, SABIC

Kevin is a graduate mechanical engineer, with an MA in Engineering Science and a D.Phil in two phase flow studies from Oxford University. He joined ICI in 1985 and held a number of roles in maintenance and engineering before transferring to Huntsman in 1999 and then to SABIC in 2007. In 2008 Kevin was the leader of the engineering and maintenance organisations for SABIC's Teesside Operations in the UK.

Kevin has been working in Saudi Arabia since 2009 in a number of Manufacturing roles, and he is now working on a project that is aiming to rationalise SABIC Working Capital. He is a Fellow of the Institution of Mechanical Engineers and a Tutor at the Robert Gordon University in Aberdeen.

Christos Christoglou, Head of Risk Based Inspection Assessment (RBIA) Group, Bayer Technology Services

Christos has been with Bayer since 2010 as Risk Engineer and project leader in the RBI group and has been heading the group since 2012. BTS-RBIA is in charge of implementing Risk Based Inspection Assessments for the Bayer group as well as external customers in the chemical/petrochemical industry.

Christos has participated in numerous projects and is also responsible for customer acquisition, tender evaluation and project proposals. Born in Germany, raised and studied in Greece, a Dr. Dipl. Chemical Engineer (MSc. Materials Science), Christos has worked between 2004 and 2010 for the aluminium industry "ELVAL" in Greece (1. Coil coating line technology engineer, 2. Cast House production and technology engineer), for the "CIRIMAT/CNRS" in France (MOCVD for catalytic microreactors in porous metallic substrates) and with the "Germanischer Lloyd-TCI Greece" as inspector for steel pipelines in Greece and Algeria, before joining BTS. He has also experience in metal surface corrosion protection (turbine blades coatings, steel hardening, et. al.). Christos has been a member of the Marie Curie Fellowship Association - MCFA since 2005 and participated as Secretary General for 2 years being involved in the re-setup of the association and the cooperation with the EU.

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Agenda Day One | Monday 03 March 2014

08.30 Welcome and Introduction

09.00 Overview: Achieving Maintenance and Reliability Excellence

- » Defining the goals of maintenance
- » Efficiency in the context of day-to-day maintenance delivery
- » Effective use of maintenance resources to their full potential
- » What is a maintenance strategy? How is it developed?
- » Maintenance methodologies, tools and trends
- » Utilising plant history
- » Key aspects of turnaround management
- » Complete phases of delivery
- » Key deliverables

David Woods, Project Manager and TA Trainer, T. A. Cook Consultants

10.00 Morning Refreshments

10.20 Leadership and People Management

- » What is leadership?
- » Motivating maintenance teams
- » Performance measures and building a culture of continuous improvement
- » Managing learning and development in leading chemical and petrochemical sites
- » Key steps to change management
- » Attracting and securing workforce - Internal workforce and contractor management

David Woods, T. A. Cook Consultants

11.30 Review, Discussion, and Exercise on Topics Covered

12.00 Networking Lunch

13.00 Reporting: KPIs and Financial Optimisation of Maintenance and Reliability Operations

- » Benchmarking and KPIs:
 - » Benefits of benchmarking your performance
 - » Key performance indicators
 - » Measuring performance and “Continuous Improvement” - reporting, analysis, corrective measures, and follow-up
- » Financial Optimisation:
 - » What does financial optimisation really mean onsite?
 - » Elements of cost-control in the maintenance environment
 - » Energy management
 - » Evaluating the cost impact of your maintenance decisions and choosing the best approach
- » **Exercise:** Determining the value of KPIs

David Woods, T. A. Cook Consultants

14.30 Industry Presentation: Improving the Efficiency of Maintenance Delivery

- » Annualised hours contracts (no overtime)
- » Maintenance work delivery:
 - » Multi-skilling, training and competence management
- » Insourcing and outsourcing
- » Alliance / partnership contracts
- » Metrics for performance improvement

Kevin McQuillan, Special Projects Director, SABIC

Case Study

15.00 Refreshments Break

15.15 Discussion

- » Experiences in improving the efficiency of maintenance
- » Use of contractors - things to do and things to avoid

Facilitated by: Kevin McQuillan, SABIC and David Woods, T. A. Cook Consultants

16.00 Effective Work Preparation: Use of Resources, Planning, and Organisation

- » Need for communications between production, maintenance and reliability team
- » Organisational design and maintenance process management - Benefits of operator driven maintenance
- » Spare parts management
- » Good practice in planning and scheduling
- » Preparation and optimisation of outside resources

David Woods, T. A. Cook Consultants

17.00 Review and Wrap Up

Agenda Day Two | Tuesday 04 March 2014

08.30 Welcome Back

08.30 Best Practices: Proven Techniques, Technologies, and Approaches

- » Main approaches used in equipment maintenance and methods to improve plant reliability
- » Looking at the choices - Risk Based Inspection, Reliability Centred Maintenance, Root Cause Analysis, Failure Modes, Effects and Criticality Analysis (FMECA)
- » Getting the most out of your CMMS system
- » How is mobility affecting maintenance processes
- » Critical asset policy:
 - » When and how to replace critical components – Block replacement or age-based replacement cycles
 - » Deciding which machinery should be earmarked for preventive maintenance and which equipment should run to failure

Dirk Frame, Managing Partner, T. A. Cook Consultants

09.30 Industry Presentation: Increasing Asset Reliability and Availability with Risk Based Inspection

- » Essentials of risk based inspection and its best uses
- » Handling the procedure for a large project - 400 fixed equipment, piping, safety valves, etc.
- » Necessary data, organization and risk analysis
- » Creation of detailed inspection plans including details of account legislation
- » Comparison of a turnaround process before the implementation of RBI and after including:
 - » The overall impact on duration
 - » Costs including inspection
 - » Problems rectified ahead of equipment failure
 - » Lessons learned

Christos Christoglou, Head of Risk Based Inspection Assessment (RBIA) Group, Bayer Technology Services

Case Study

10.15 Morning Refreshments

10.30 Maintenance Turnarounds: Optimizing the Turnaround Process

- » Phases of a turnaround
- » Understanding the turnaround strategy
- » Planning and scheduling the turnaround
- » Execution management
- » Closing out the turnaround
- » **Exercise:** TAR planning exercise

David Woods, T. A. Cook Consultants

12.00 Lunch

13.00 Asset Life Cycle Management

- » Life cycle costing and its impact on maintenance procedures
- » Optimising ROA - Effectively managing mature assets and extension of plant life
- » Continuous cycle - Long-term approach to maintaining equipment reliability

Dirk Frame, T. A. Cook Consultants

14.00 Refreshments Break

14.15 Wrap Up

- » Review of content
- » Final discussions
- » Lessons learned
- » Time for questions

David Woods and Dirk Frame, T. A. Cook Consultants

15.00 Close of Seminar



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Reliability and Maintenance Management for Chemicals and Petrochemicals Industry

A Master-Class in Effective Maintenance Management

03 – 04 March, 2014, Birmingham, UK

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Fees and Payments

Price includes electronic documentation, lunch, refreshments and an evening event for participants. Please note that accommodation and travel are not included in the registration fee.

Seminar Fee

Super Early Bird Fee ***
£950*

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£1,050*

Standard Fee
£1,150*

* Plus 20% UK VAT

*** Super Early Bird discount valid until 17 January 2014

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Payment must be received BEFORE the seminar

Seminar Venue

Hotel La Tour

Albert Street
Off Park Street
Birmingham
B5 5JE

How To Get There

Hotel La Tour is on the Eastside of the city off a one way street called Park Street, near the centre of Birmingham. It is a ten minute walk from New Street station although Moor Street station is the nearest. In the city follow signs to the Bullring, Moor Street station and Millennium Point and you will be very near to the hotel which is a cream and black building with large signage on it.

Seminar Organisers

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