EFFECTIVE PLANT TURNAROUND MANAGEMENT

Optimising your Plant Turnaround Management Strategy to Exceed Safety, Quality, Time and Cost Targets

24 – 26 November 2014 | Kuala Lumpur | Malaysia

Your Expert Trainer: Tom Lenahan, United Kingdom


A 3 day training course derived from the Turnaround Model of Excellence developed by practitioners that guarantee the reliability of process plants. The course nine modules comprehensively cover all aspects of Turnarounds from the strategic level to hands-on elements such as planning and logistics.

Learn what other participants have said about this course in 2011/12:
“Totally change my whole view of TA management” - E&I Engineer, Toray BASF PBT Resin Sdn Bhd
“This training had given me more clearer understanding on TA planning and preparation as compared before attending this training” - Executive Maintenance Contract / TAPP, PCSB
“It’s really effective” - Senior Mechanical Maintenance Technician, Phu My3 BOT Power Plant
“Great course for TA professionals” - Major Maintenance Engineer, Shell Eastern Petroleum
“New approach towards flawless TAs” - TA Plan & Prep, Petronas Carigali Sdn Bhd
“Exposed us to the effective way to manage turnaround” - Maintenance Engineer, Specific Resource
“The training is a work changing experience” - Shutdown Supt., Malaysia LNG Sdn Bhd
“This training is very comprehensive & knowledgeable” - Sabah Strategy and Planning head, Shell

www.petroedgeasia.net
About this world-class plant turnaround 3-day training course

Turnarounds are complex projects that have a substantial impact on business performance. It is imperative that Turnarounds are effectively planned and executed, especially in continuous process industries such as Oil, Gas and Chemicals. Turnarounds are more than merely technical events carried out by the maintenance function. They are an integral part of any company’s business strategy.

This highly complex, hazardous and, at times, technically difficult undertaking that affects so many companies and engages so many people at all levels of the company, is one critical activity within a life-cycle of plant. Compared with the wealth of information available on general maintenance subjects, much of what does exist seems to be built around planning and scheduling and tend to ignore the business approach to Turnarounds.

The purpose of the course is to present a Model of Excellence for Turnarounds that has been developed and refined over a 30 year period by many hundreds of people working in different industries around the world. The course will consist of direct teaching of principles, case studies of real situations, free discussion of issues and workshops to give hands on experience of the elements of Turnarounds.

Master the critical skills in managing a world-class plant Turnaround project by acquiring the following:

- Acquire the critical elements of plant turnaround management within the Turnaround Model of Excellence
- Assessment and engagement models to effectively manage your contractors
- Strategies to drive quality and ensure reliability during the turnaround process
- Practical co-ordination strategies to ensure effective logistical planning and to ensure reliability post shutdown
- A safe system of work that aligns appropriately with the risk profile of turnarounds
- Effective measures to benchmark progress, performance and overall productivity

This practically focused master class will teach you the practical skills to:

- Justify and execute a strategic and structured plant turnaround plan
- Create a maintenance contracting model that ensure continuous commitment to project goals and timelines
- Implement key strategies to ensure safety, quality and reliability throughout the shutdown
- Acquire best practice plant management and execution techniques to drive high performance and achieve optimal productivity

P.S. Take advantage of our early bird and attractive group booking discounts. See reverse for details on these offers!

Learn more about our Strategic Learning Solutions for Oil & Gas
Call +65 6741 9749 or email to info@asiaedge.net.
Or visit us at www.petroedgeasia.net for more information.
Course registration begins at 8:30am on Day 1. The course will commence at 9am on all days. There will be breaks for mid-morning refreshments, lunch, and mid-afternoon refreshments. The course will end by 5pm on both days.

DAY 1
Introduction and overview
- The Turnaround as a rational process
- The characteristics of a Turnaround
- The role of senior management
- The role of the Turnaround Manager
- Critical relationships

Organisation of the turnaround team
- Designing the Organisation
- Understanding the organisational hierarchy
- Using the competence model
- Applying the skill matrix
- Issues of ad hoc teams

Safety of the turnaround project
- Creating a safe system of work
- Formulating a safety plan
- Permit to work issues
- Monitoring safety.

Workshop No 1 - Strategic issues

DAY 2
Maintaining the Quality criteria throughout the turnaround
- Total Quality approach
- Quality assurance
- Quality control

Planning for successful plant turnarounds
- Building a credible worklist
- Planning the Planning
- Crating job methods
- Critical path issues & scheduling

Contractor relationships and management in turnarounds
- Upside and downside of contracting
- Creating a framework for letting contracts
- Contractor combinations
- Pre-qualification issues

Workshop No 2 – Creating an organisation using contractors

DAY 3
Managing costs in a turnaround project
- A rational cost reporting model
- Creating a control estimate
- Examples of estimating models
- Incentives

Managing the logistics challenges in a turnaround
- Applying logistics to a turnaround
- Specifying the physical items
- Defining current disposition
- Using plot plans
- The control of bulkwork

Execution of a world-class turnaround project
- The phases of a Turnaround
- Turnaround Manager’s daily routine
- Executing planned and emergent work
- Controlling the event
- Terminating the event

Workshop No 3 – The issues of cost cutting

About PetroEdge

The core competencies of professionals in the Oil & Gas industry are constantly evolving. To meet this ever growing gap, PetroEdge Strategic Learning Solutions provides targeted up-to-date, practical and technically sound training solutions that enable engineers to be continuously relevant in industry.

To learn more about us, visit www.petroedgeasia.net

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Effective Plant Turnaround Management with Tom Lenahan
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Your Expert Trainer: TOM LENAHAN

Author of the Textbook “Turnaround, Shutdown & Outage Management” (ISBN 10: 0-7506-6787-7) and has presented papers on Turnaround Management and maintenance at international conferences in UK, Hungary, South Africa and India. Contributed technical articles on Shutdown Management to the UK Maintenance Management magazine.

Gained extensive experience and expertise in many aspects of maintenance, project and construction Management. Specialist in Turnaround (Shutdown & Outage) Management and similar projects from concept through to on-site completion in the Power Generation, Oil, Gas, and Chemicals. Assisted clients in the resolution of maintenance and Turnaround issues of various types including; contractor strategy, procurement process, project engineering, training, effectiveness, and costing, procedural failures and patterned thinking.

Developed a “Model of Excellence” for benchmarking Shutdown performance. The model is used to assess client’s performance against current best practice and to generate real time recommendations for improvement. To date carried out 50+ Turnaround audits and supervised 200+ further audits. Developed a comprehensive Shutdown Management training course that has been delivered in many countries around the world as well as forming part of an MSc in Maintenance Management at Manchester University in the UK. This course was also taught for five years at the Central Queensland University in Australia and at the Austral University of Buenos Aires in Argentina.

Previous participating organisations include the following companies:
- Cuu Long Joint Operating Company
- Hess (Thailand) Limited
- Petronas Carigali
- S-Oil Corporation
- Petronas Gas
- Asean Bintulu Fertilizer
- Carigali Hess Operation Co.
- MTBE Malaysia
- HMC Polymers
- CNOOC SES
- Shell Refining Company
- Esso Malaysia
- Optimal Chemicals
- Penta-Ocean Construction

Hear what others have said about this course

“Good course. It gives me an insight to the few problems/issues I faced.”
Petronas Carigali

“It was a helpful course to give you an overall in-depth input on various TA aspects.”
Petronas Carigali

“A dynamic course for support services in the oil & gas industry.”
Penta Ocean Construction Ltd

WHO SHOULD ATTEND

This Workshop has been researched and developed for Managers, Superintendents, Supervisors, Engineers, Planners, Team Leaders and Coordinators of:
- Shutdown & Turnarounds
- Maintenance
- Engineering
- Operations
- Health & Safety
- Reliability
- Plant Outage
- Asset Management

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petroEDGE® delivers energy industry skills-based training courses in major cities around Asia, catering for every stage of your organisation’s development path. Since our inception, we have provided wide range of management development training, business strategy and technical skills training courses to over 100 leading international corporations and government establishments.

Our growing client profile:

- Almansoori Wireline Services (Thailand)
- Arabian Bridge Company for Oil Services
- Asetanian Marine Pte
- Bangladesh Oil, Gas & Mineral Corp
- Bergen Group ASA
- BG Exploration and Production India
- BJ Services Company Middle East
- BP Exploration & Operating Vietnam
- BP Exploration Operating Company
- BP Indonesia / Singapore & Vietnam
- Brunei LNG
- Brunei Petroleum
- Brunei Shell Petroleum Co
- Cairn Energy India Pty
- Carigali Hess Operating Co.
- Carigali PTTEPI Operating Company
- CGG Veritas (M)
- Charnavon Petroleum
- Chevron Asia South
- Chevron Thailand E & P
- CNOOC
- Cuulong Joint Operating Company
- Det Norske Veritas (DNV) As
- Det Norske Veritas Pte
- Dof Subsea Australia Pty
- DPS Bristol (M)
- Esso Malaysia Berhad
- ExxonMobil E & P Malaysia Inc.
- First Gas Power Corporation
- Genting Oil & Gas
- Geomechanics International
- Greatwall Drilling Company
- Halliburton Energy Services, Inc.
- Hercules Tanjung Asia
- Hess (Thailand) Limited
- Hoang Long Hoan Vu JOC
- Intisari Oilfield Service
- Intra Oil & Services Bhd
- Japan Vietnam Petroleum Compan
- Kavin Engineering & Svcs Pte
- Kebabangan Petroleum Operating Co.
- KUFPEC Regional Ventures (Indonesia)
- Lam Son JOC
- Lion Rig Builder Pte
- Lundin Malaysia B.V.
- Maersk Drilling
- Maersk Oil Qatar
- Malakoff Corporation Berhad
- Malaysia LNG
- Malaysia Marine & Heavy Engineering
- Malaysia-Thailand Joint Authority
- Media Chinese International
- Mid-Continent Equipment Group Pte
- MISC Berhad
- Mitsui Oil Exploration Co.
- MMS (Insurance Brokers)
- Murphy Oil Corporation
- National Healthcare Group
- Nations Petroleum (SE Asia)
- Newfield Peninsula Malaysia Inc.
- Nipon Oil Exploration (Malaysia)
- Oceaneeering International
- Offshore Geo-Surveys
- Optimal Chemicals (M)
- Optimal Olefins (M)
- PC Vietnam
- PCPP Operating Company
- Pearl Energy (Nam Conson)
- PERMATA
- Permuta - PMTSB
- Pertamina Learning Center
- PetroEnergy Resources Corp.
- Petrofac Malaysia Limited
- Petroleum Institute of Thailand
- Petroleum Well Logging Co.
- Petrolux
- PETRONAS Holdings
- PETRONAS Carigali
- PETRONAS Carigali Vietnam Limited
- Petronas Dagangan Berhad
- PETRONAS Gas
- PETRONAS Methanol (Labuan)
- PETRONAS Penapisan (Melaka)
- Petrousoha Engineering Services
- Petrovietnam Drilling & Well Services
- Powertium Marine
- Premier Oil Indonesia
- PT Halliburton Indonesia
- PT Medco E&P Indonesia
- PT Pertamina (Persero) Head Office
- PT Perusahaan Gas Negara
- PT PLN (Persero) Kantor Pusat
- PTT Exploration & Production
- PTTEP International Limited
- PTTEP Iran Company Limited
- PTTEP Oman Company
- PVD Offshore Services Co.
- Ranhill Engineers & Constructors
- Rhodia Asia Pacific Pte
- Repsol
- Royal Norwegian Embassy
- Sabah Shell Petroleum Co
- Sapura Energy
- Sapuracrest Petroleum Berhad
- Sarawak Shell Berhad
- Saudi Arabian Oil Company
- Saudi Basic Industries Corp
- Schlumberger Oilfield (S) Pte
- Scomi Oiltools
- Shell Eastern Petroleum
- Shell MDS (Malaysia)
- Shell Saudi
- Sime Darby Plantation Sdn Bhd
- Singapore Petroleum Co.
- SN Aboitiz Power
- S-Oil Corporation
- Talisman Malaysia
- Tately N.V.
- Technip Geoproduction (M)
- Teknik Janakuasa
- Temasek Holdings Pte
- Tenaga Nasional Berhad
- Thang Long JOC
- TL Offshore
- Total (China) Investment Co. .
- TOTAL E&P Indonesia
- Trans Thai Malaysia
- Transwater API
- Tri-M Technologies (S)
- Truong Son JOC
- UMW Standard Drilling
- University New South Wales
- Vastalux
- Vinyl Chloride (Malaysia)
- YTL Power International Berhad
IN-HOUSE TRAINING SOLUTIONS

petroEDGE® focuses on skills development in 3 main areas – Engineering, Management and Strategy for Upstream Exploration and Production Business.

Our In-House Training Solutions Team offer a full spectrum of short courses, curricular competency based solutions that can be customised to your long term and short term business needs.

Types of In-House Programmes offered

**FUNDAMENTAL PROGRAMMES**
- Introduction to Exploration & Production
- Drilling Essentials
- LNG Fundamentals
- Introduction to FPSO
- CBM & Shale Gas Technical Fundamentals

**TECHNICAL PROGRAMMES**
- Operations Geology (Level 2)
- Basin Analysis (Level 2)
- HPHT Well Engineering
- Deepwater Well Engineering
- Deepwater Well Operations
- Well Intervention
- Well Integrity Management (Drilling & Production)
- HAZOP Assessment & Leadership
- HPHT Completions Techniques
- Well Operations and Maintenance
- Stuck Pipe Prevention & Fishing
- Train-the-Trainer: Gas Processing Level 1
- Train-the-Trainer: Gas Processing Level 2

**MANAGEMENT & SOFTSKILLS PROGRAMMES**
- Technical Report Writing & Presentation Skills
- Writing Standard Operating Procedures
- EPCIC Contract Management Techniques
- Advanced Budgeting & Forecasting in Oil & Gas
- E & P Accounting
- Finance for Non-Finance
- Leadership & Team Dynamics

“TRAIN-THE-TRAINER” PROGRAMME

The “Train-the-Trainer” program has proven to be one of the most cost effective methods for embedding the process of delivering and facilitating crucial training programmes within your organisation in terms for sustainable skills and knowledge development.

“Train the Trainer” programme and its specific deliverables provide in-depth concept knowledge, instructor training, and facilitation skills. This experience prepares select employees to become internal Program Leaders, licensed to teach internally. The internal trainer can play a critical role in developing and implementing programs that align the organization for success.

This programme will be a carefully designed approach for sustainable and effective organisational improvement. The role-out will reflect the immediate on and on-going challenges faced within your organisation.

**CURRICULUM DEVELOPMENT PROGRAMME SERVICES**

With the constant changing of business environment and volatile economy, every company, big or small, needs to stay abreast of the rapidly evolving developments and acquire new competencies in order to stay competitive. Our key pool of trainers, industry experts and consultants are available to develop a Curriculum Development training programme to help you attain relevant competencies in the area that is most needed.

To learn more, call us at +65 6741 9927 or email info@asiaedge.net
**petroEDGE®** boasts an unrivalled teaching faculty. All of our partners and consultants have extensive management and technology experience coupled with a track record in delivering high quality courses to professionals in leading oil majors globally.

In addition to individual consultants and trainers, **petroEDGE®** also works closely with 2 major training partners, namely:

**PETRONAS LEADERSHIP CENTRE**

PETRONAS Leadership Centre (PLC), started as an internal training department in 1979. Over the years, we have established ourselves as a top corporate learning hub for industry leaders, serving the Oil & Gas sector in Malaysia and beyond. Backed by over 30 years of experience and our deep passion for excellence, PLC has robust tools and Learning and Development know-how to help leaders transform and enhance their leadership skills. This is supported by the resources of PETRONAS and its firm belief in the importance of human capital development. For further information on PLC, visit [www.petronasleadershipcentre.com.my](http://www.petronasleadershipcentre.com.my).

**ROBERTSON CCG**

The Robertson Training Centre was established in 1990 to provide a comprehensive range of upstream training programmes for the international petroleum industry. With a portfolio of over 70 courses, training has been given to personnel from over 120 companies and delivered in more than 45 countries. The Centre has now gained a reputation for the quality of its product. Robertson is unique in the oil and gas training field in that by using our in-house experts, we can design and present training programmes of any length in virtually any global location. In addition to five day short courses, the Centre’s most effective training programmes, delivering real skills transfer, are in-company workshops using client data. Given over 6-12 weeks, these workshops teach technical skills in exploration, development and production, project planning and management, teamwork and presentation skills. Long term training on a one-to-one basis is also offered for periods of up to 6 months.

**petroEDGE®** are members of the esteemed **Energy Institute** and the **CPD Certification Service**. We also proud to be have inducted as an approved training provider of **Institute of Leadership & Management** for 4 of our training programmes. This highlights the confidence given to the quality of our trainings courses.

The **CPD Certification Service** helps organisation provide certified CPD and acts as a point of contact for those seeking to obtain certified CPD material. It supports further learning initiatives being undertaken by Government, professional institutions, trade associations, individual organisations, training providers, suppliers and so on.

For more information, visit [www.cpduk.co.uk](http://www.cpduk.co.uk).

The **Energy Institute (EI)** is the professional body for the energy industry, delivery good practice and professionalism across the depth and breadth of the sector. The purpose of the EI is to develop and disseminate knowledge, skills and good practice towards a safer, more secure and sustainable energy system.

In fulfilling this purpose the EI addresses the depth and breadth of energy and the energy system, from upstream and downstream hydrocarbons and other primary fuels and renewables, to power generation, transmission and distribution to sustainable development, demand side management and energy efficiency. A Royal Charter membership organisation, the Energy Institute provides a wealth of expertise in energy matters, serving as a home for energy professionals and a scientific and technical reservoir for industry. It is licensed by the Engineering Council to offer Chartered, Incorporated and Engineering Technician status to engineers and also by the Science Council and Society for the Environment to offer registration as Chartered Scientist and Chartered Environmentalist.

The EI is an international organisation serving its members in around 80 countries. For more information, visit [www.energyinst.org](http://www.energyinst.org).

The Institute of Leadership and Management (ILM) is Europe’s foremost leadership and management body. At ILM, we are passionate about the power of leadership and management to transform people and businesses. We believe that good leadership and management creates effective organisations, which builds social and economic prosperity. ILM work with organisations in all sectors to help them define, develop and embed the leadership and management capability they need to succeed. ILM provides qualifications in leadership and management, coaching and mentoring and specialist areas such as social enterprise. For more information, please visit [https://www.i-l-m.com](http://https://www.i-l-m.com).

Our programmes approved by ILM are: **International Oil & Gas Executive Development Program 2013**, **Human Competency & Capability Development**, **Leadership Team Dynamics in Oil & Gas** and **Technical Report Writing & Presentation Skill for Oil & Gas Professionals**.

Visit us at [www.petroedgeasia.net](http://www.petroedgeasia.net) or contact us directly at +65 6741 9927 or email to [info@asiaedge.net](mailto:info@asiaedge.net) for more information.
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