

## 'Poor Equipment Care' it's costing a fortune!

Whether it be safety, cost, productivity or output: lack of equipment care is now recognised as a significant cause of poor performance



Banpu Lampang in Thailand



Tandung Mayang Indonesia



Blasting Improvements



TPM Activities Time in Pit



Blending & Port Facility



Attend this two-day interactive workshop...

# TPM in Mining and Process Industries

**Total Production Maintenance**

or

**Prevention at Source for Equipment**

is an operational improvement strategy that is saving millions of dollars for Open Cut Coal Mines in Thailand and Indonesia based on an Australian approach that ultimately engages all employees through formal improvement activities

**Discover a proven pathway for  
integrating Production and Maintenance  
while achieving Operations Excellence**

**Learn how to navigate the transformation  
to TPM so as to:**

Maximise Capacity

Minimise Cost

Enhance workplace conditions & culture

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**Mackay QLD 11 & 12 August**

**Presenters**

Ross Kennedy  
Wollongong  
0418 206 198



Bill Hopton  
Mackay  
0418 663 563

# Gain a greater understanding of your Journey to Operations Excellence



## Workshop Timing (Day 1 & 2):

- 08.15 Registration Tea & Coffee
- 08.30 Commence
- 10.30 Morning Tea & Coffee
- 12.15 Lunch
- 14.15 Afternoon Tea & Coffee
- 15.45 Afternoon Break
- 17.00 Conclude
- 17.00 Networking Drinks (Day 1)

## You will receive:

- Comprehensive workshop manual
- Operations, Maintenance and Culture rating sheets
- 8 Year Study into the Operations Capability of Australian Industry to allow comparison of your site
- Getting Lean & TPM to Work (the TPM<sup>3</sup> way) booklet
- Lunch, morning and afternoon teas each day
- Networking drinks (Day 1)



## Raves from Previous Attendees:

TPM<sup>3</sup> is the key for building a sustainable future within your business.

**Mark Ash, Superintendent ODR Asset Reliability / Iron Ore, BHP Billiton WA**

This workshop is a very valuable investment for anyone embarking on a TPM Journey. It has the right mix of education, case studies, group activities and experiential learning.

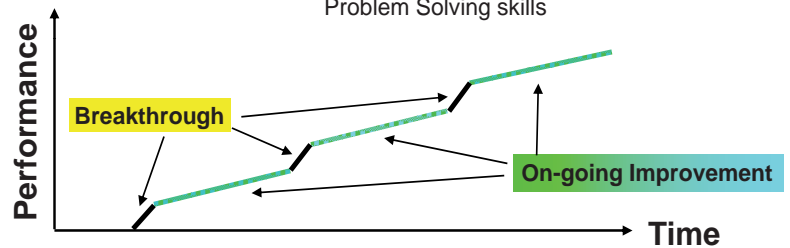
**Brian Levitan, Public Officer, Lean Network NSW**

This workshop is based on over 14 years of hands-on refinement of what is now acknowledged as one of the most comprehensive strategic pathways and frameworks for the TPM journey.

TPM<sup>3</sup> is based on Breakthroughs and On-going Improvement Activities that progressively develops the skills and abilities of all employees so as to unleash their full potential

**Breakthroughs** = Cross-functional Team improvement focusing on Key Improvement Drivers, developing Problem Solving skills and breaking down barriers

**On-going Improvement** = Area Based Team improvement focusing on developing Visual Workplace and Prevention at Source abilities and enhancing Problem Solving skills



**Key Improvement Drivers:** Lean - Lead Time Reduction  
TPM - Overall Equipment Effectiveness (OEE)

## This workshop will outline how to:

- Break down barriers and build relationships between Production & Maintenance and Management & Workforce
- Understand the entire equipment and process losses at the site along with whether they relate to technical or people issues
- Improve equipment performance to allow time for operator development through Area Based Teams
- Improve Communications between shifts to promote sharing of learnings
- Establish agreed standards across all shifts to reduce variation in operation and sustain improvements
- Train operators to identify safety, quality and equipment problems at the source, at the earliest possible time
- Change the equipment so it is easy for operators to find the problems
- Create a maintenance support capability that can respond to small problems and issues identified by the operators to encourage operators to continue to find problems
- Establish stability of the production plan to promote and enable Formal Continuous Improvement

TPM is the most effective proven means of addressing 'poor equipment care', eliminating and avoiding 'equipment defects' and becoming a 'best performer'

# Workshop Outline

**The Evolution of Lean and TPM** – how equipment reliability underpins Lean and requires everyone to be focused on it

*Operations Excellence Rating - how does your site compare?*

**Sustaining TPM in an Australasian workplace** - holistic measurement, workplace ownership and formal continuous improvement involving everyone

**Measuring Overall Equipment Effectiveness (OEE)** – a key driver for improvement

*Hands-on Simulation - demonstrating OEE measurement*

**Key Challenges to implementing TPM** – responsibilities and accountabilities

**Why do it** - benefits from implementing TPM

**Development of the 10 Improvement Activities** - recognising the need for inductive Improvement rather than our normal deductive approach

**Role of Site Leadership** – developing the overall philosophy, operations vision & structure and measurement alignment

**Activity 1: Safety & Environment Management** - the ingredients to achieving Zero Accidents and Incidents

**Activity 2: Focused Equipment & Process Improvement** - building relationships between production and maintenance while creating time for formal improvement activities

**Activity 3: Work Area Management** – sorting out the workplace while improving communications and standards between shifts

**Activity 4: Operator Equipment Management** - developing world class operators while achieving Zero Breakdowns

**Activity 5: Maintenance Excellence Management** - freeing up maintenance time to support site-wide improvement activities

*Maintenance Excellence Rating - how does your site compare?*

**Activity 6: New Equipment / Area Management** - applying 'prevention at source' to new and refurbished equipment

**Activity 7: Support Department Improvement** – addressing the 'cause for pause' in support departments

*Hands-on Simulation - demonstrating the new paradigm*

**Activity 8: Value Stream Management** - achieving a stable production plan

**Activity 9: People & Leadership Development** - developing Base Skills, Mastery Skills, Team Skills, along with Leadership Skills to support engaging employees in formal continuous improvement

**Activity 10: Process Quality Management** - the ingredients to achieving Zero Quality Problems

**Changing Workplace Culture** - using the environment to change behaviours

*Workplace Culture Excellence Rating – how does your site compare?*

**A Step-by-Step Implementation Pathway** - key activities of the improvement journey

**Getting the Sequence Right** - planning for success and sustainability

**The Road Ahead** - mapping a path forward

## Raves from Previous Attendees:

It would be fantastic if all companies could implement TPM<sup>3</sup> at inception instead of waiting until poor habits have developed and then trying to fix them.

**Pete Davey, Maintenance Controller, BIS Industrial Logistics NSW**



Our proven Lean & TPM methodology (TPM<sup>3</sup>) recognises the need for both Cross-functional improvement teams and Area Based Teams engaged in formal improvement activities. The Cross-functional Teams focus on creating 'breakthroughs' using effective Pro-active and Frontline Problem Solving using a range of 'improvement drivers' to allow the prioritising of opportunities. Area Based Teams practice 'on-going improvement' to develop their Visual Workplace and Prevention at Source abilities and further enhance their Frontline Problem Solving skills.

Area Based Team improvement is about engaging everyone to systematically look at their workplace and identify and eliminate any imperfections or defects that can ultimately lead to early equipment failure or poor performance and hence increased costs and frustrations. By providing everyone the framework and encouragement to not only 'remove' the imperfections or defects but to find out where they are coming from and implement changes to 'avoid' their reoccurrence, significant savings and performance improvement can be achieved along with a high degree of ownership to the solutions by the people who do the work. This approach of engagement is referred to as 'pull' culture change and is a critical ingredient in achieving Operations Excellence.

## Quotes about our methodology from Australian Open Cut and Underground miners include:

"We increased our rate of development from 100m/week to 120m/week in less than 12 weeks"

"Whilst cleaning and inspecting the fuel service truck for defects we found \$6,000 worth of critical spares hidden by accumulated dirt"

"The team found that the truck fleet was only effective for 25% of the time"

Changing everyone's habits has made us more effective at eliminating accidents"

Miners and maintainers are now working together with a common goal"



To register, visit our online events page at [www.ctpm.org.au/page/events](http://www.ctpm.org.au/page/events) or fill out the following form and fax or email to **CTPM** Australasia

**Fax:** +61 2 4226 6218 **Email:** [ctpm@ctpm.org.au](mailto:ctpm@ctpm.org.au)

## Registration Form - TPM in Mining and Process Industries

### PERSONAL DETAILS

**Name:** \_\_\_\_\_

**Position:** \_\_\_\_\_

**Company:** \_\_\_\_\_

**Mailing Address:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Phone:** \_\_\_\_\_

**Email:** \_\_\_\_\_

### PAYMENT DETAILS

**CTPM MEMBER**       NON CTPM MEMBER

Please send me a **CTPM** membership application form

Send me free email updates on Lean & TPM (TPM<sup>3</sup>)

EFT - Westpac - BSB 032 695 - Account Number 120 426

Cheque enclosed, payable to: **CTPM** Australasia  
PO Box 1039 Wollongong NSW 2500

INVOICE MY COMPANY ON PURCHASE ORDER No: \_\_\_\_\_

Please charge my Credit Card: Total \$ \_\_\_\_\_

Visa       Mastercard       Amex

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

CARDHOLDER'S NAME: \_\_\_\_\_

EXPIRY: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

Confirmation of your registration and tax invoice will be sent once payment has been received

### QUALITY GUARANTEE

We back our training with an unconditional money-back guarantee.

If this workshop fails to meet your expectations return your manual at the conclusion of the workshop and we will refund your attendance fee.

## Dates & Venues

**11 & 12 August 2010**

Clarion Hotel Mackay Marina  
Mulherin Drive, Mackay QLD

## Workshop Fees

**CTPM Member = \$1,600 + GST (\$1,760)**

**Register 3 or more CTPM Members & pay only \$1,400 + GST (\$1,540 per delegate)**

**Non CTPM Member = \$1,800 + GST (\$1,980)**

**Register 3 or more Non CTPM Members & pay only \$1,600 + GST (\$1,760 per delegate)**

**Accommodation not included in workshop fee**

### PROGRAM CHANGES

CTPM reserves the right to make changes in venue, to cancel program if enrolment criteria are not met, or when conditions beyond its control prevail. Every effort will be made to contact each delegate if a program is cancelled.

### CANCELLATION

Where an alternative delegate is not possible, CTPM requires written notice at least 7 days prior to the event in order to issue a refund. No refunds will be made within 7 days notice.

[www.ctpm.org.au](http://www.ctpm.org.au)

**NEW**  
Register  
Online