

MAXIMISE

 Productivity
Capacity

MINIMISE

 Costs
Operational Risk

IMPROVE

 Safety & Morale
Workplace Conditions

A Flexible Framework consisting of 10 Integrated Improvement Activities



focusing on Achieving Excellence in:
Problem Solving
Visual Workplace
Prevention at Source

NETWORKING

Learn from other sites

TRAINING

Accelerate your Learning

ON-SITE NAVIGATION

Learn by Demonstration & Doing

RESEARCH

Learn from Analysis

ASSESSMENTS/AUDITS

Understand the Gap/Monitor Progress

A Brief Overview:

A membership-based organisation assisting companies since 1996 to strive for Operations Excellence by progressively developing and unleashing the full potential of all their people, equipment and processes using our proven Australasian approach to TPM & Lean we call TPM³

Key Features:

- Focuses on equipment and process performance recognising that if equipment and processes aren't working well, frustrations run high
- Recognises the need to create the capability within the workplace of everyone being able to rapidly identify and rectify problems at the source while creating the environment that stops problems from occurring
- Provides rapid return on investment while laying the foundation of sustainability

Success Stories:

There are many success stories throughout Australia, New Zealand, Thailand and Indonesia covering Manufacturing, Mining, Process, Utilities and Service companies.

Some of the gains achieved and publicly announced include:

- **Banpu Lampang Open Cut Coal Operations** - Reduced average maintenance costs across the plant by 50% while increasing output over 4 years
- **Juken New Zealand Northland Mill** - A timber processing plant reduced manufacturing costs by 50% along with an 88% reduction in Lost Time Injury Frequency Rate over 2 years
- **Kaltim Prima Coal (KPC) Open Cut Coal Mine** - \$180m in savings over 3 years
- **PT Kitadin - Tandung Mayang Open Cut Coal Mine** - \$20m in savings over 5 years
- **Simplot Australia Devonport Site** - A food processing plant closed the gap on OEE Excellence by 54% and the gap to Cost / Kg by 58% saving over \$5M over 2 years
- **Simplot Australia Echuca Site** - A food processing plant closed the gap to Yield Excellence by 85% over 4 years
- **Telstra Regional Service Operations** - Achieved savings throughout Australia of \$110m over 4 years
- **Zinifex Rosebury Metalliferous Underground Mining** - \$6.6m savings over 3 years

Improve your Business - Reward your People with a National Qualification

Competitive Systems and Practices Qualifications aligned with our TPM & Lean (TPM³) Methodology

Our unique approach links the training and assessment for Competitive Systems and Practices Certificate III and IV to our TPM³ journey, thus allowing:

- Employees, once enrolled to be assessed for the required units while they are either Team Members (Cert III), or Team Leaders (Cert IV) of TPM³ Teams.
- Employees to be formally recognised with a National Qualification as they contribute to the company's strategically driven improvement initiative, rather than just complete a series of often ad-hoc projects to satisfy their training requirements.
- Practical assessments in the workplace rather than post training assessments in the classroom.



Certificate III in Competitive Systems and Practices alignment with TPM³ Methodology

To be awarded a Certificate III in Competitive Systems and Practices, competency must be achieved in 10 units

Certificate IV in Competitive Systems and Practices alignment with TPM³ Methodology

To be awarded a Certificate IV in Competitive Systems and Practices, competency must be achieved in 12 units

Example Certificate III Pathway:

Team Member (Production Operator)		Month																							
TPM ³ Activity	Unit Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Area Based Team Activities																									
Safety & Environment Management	1. Work safely			MSAPM OHS200A																					
Work Area Management (WAM)	2. Apply 5S procedures				MSS402 040A																				
Operator Equipment Management (OEM) Step 1	3. Contribute to the application of a pro-active maintenance strategy								MSS402 081A																
Operator Equipment Management (OEM) Step 2	4. Support proactive maintenance										MSS404 083A														
WAM or OEM	5. Ensure process improvements are sustained													MSS403 002A											
WAM or OEM	6. Facilitate implementation of competitive systems and practices																								
Cross-functional Team Activities																									
Mini Micro Problem Solving	7. Undertake root cause analysis											MSS402 080A													
Mini Micro Problem Solving	8. Use structured problem solving tools														MSAPMS UP390A										
Micro Focused Equipment & Process Improvement (FE&PI)	9. Implement competitive systems and practices																								
Special Micro Focused Process Improvement (FPI)	10. Participate in environmentally sustainable work practices																								

Key: Final Assessment Period

Pathways also exist for Maintenance and Support (including Sales) employees for both Certificates

Deployment Models – 3 Options

1. CTPM provides full Training & Assessment support as we assist you on your improvement journey
2. CTPM trains your TPM³ Co-ordinator* to carry out the training linked to weekly team meetings with CTPM providing formal assessments at midway and final presentations of each cycle of your improvement journey
3. Client, as a RTO conducts the assessment and issues own National Qualification (CTPM provides the training and assessment tools as we assist you on your improvement journey)

Government Subsidies are available in Australia.

Australian Government employer incentives may be available for eligible employees.

* Completed TPM³ Leadership / Instructor Program, plus one-day Assessment training

Assisting your Site to Strive for World Class

5 Level Milestone TPM³ Excellence Award

What is needed to be World Class at Improvement?

There are 3 critical ingredients:

1. Gold Medal to strive for (Improvement Vision)
2. Great Coach with a Proven Training / Development Plan
3. Discipline to follow the Training / Development Plan

To assist our members on their journey to World Class performance, CTPM created the 5 Level Milestone TPM³ Excellence Award supported by our TPM³ Milestone Assessment Process in 2002.

The Milestone Assessment Process provides a ranking based on a series of self-assessment criteria which is the precursor to an external verification assessment to allow the awarding of the achieved level of the 5 Level Milestone TPM³ Excellence Award.

Feedback also provides a gap analysis for planning future activities on your Improvement Journey.

The assessment covers four key aspects of your TPM & Lean (TPM³) journey:

- Leadership of the Improvement Journey
- Capability to support the Improvement Journey
- Improvement Activities
- Impact on the Business



What are the 5 Levels?

Each level is a stepping stone covering three aspects of your Improvement Journey

- How much of your site is being assessed
- The number of TPM³ Improvement Activities being assessed
- The level of competence (score) in each assessment sheet

Level	Coverage	Activities	Score
5	100% of Site	10	90%
4	75% of Site	8	85%
3	50% Production & Maintenance Areas	6	80%
2	25% Production & Maintenance Area	5	70%
1	2 Production (Pilot) Areas	4	60%

How good are you at Improvement?

40 Awards to 19 Recipients Achieved Since October 2002

	Level 5 (1) Banpu Lampang Coal Mine – Thailand
	Level 4 (2) Banpu Lampang Coal Mine – Thailand PT Kitadin Tandung Mayang Mine – Indonesia
	Level 3 (6) Banpu Lampang Coal Mine – Thailand NZ Sugar Company – Birkenhead NZ PT Indominco Mandiri Coal Operations – Indonesia PT Kitadin Tandung Mayang Mine – Indonesia Sugar Australia – Glebe Island NSW Uncle Toby's Company – Smithfield NSW
	Level 2 (12) ACI Plastic Packaging – Kirrawee NSW ArcelorMittal Tailored Blanks Adelaide – SA Banpu Lampang Coal Mine – Thailand NZ Sugar Company – Birkenhead NZ PT Indominco Mandiri Coal Operations – Indonesia PT Kitadin Tandung Mayang Mine – Indonesia Simplot Australia – Devonport TAS Simplot Australia – Echuca VIC Simplot Australia – Ulverstone TAS Sugar Australia – Glebe Island NSW Sugar Australia – Yarraville VIC Uncle Toby's Company – Smithfield NSW
	Level 1 (19) ACI Plastic Packaging – Kirrawee NSW ArcelorMittal Tailored Blanks Adelaide – SA B&D Doors & Openers – Revesby NSW Banpu Lampang Coal Mine – Thailand Cedenco Foods New Zealand – Gisborne NZ Hynds Pipe Systems – East Tamaki NZ Juken New Zealand Limited – Northland NZ NZ Sugar Company – Birkenhead NZ PT Indominco Mandiri Coal Operations – Indonesia PT Kitadin Tandung Mayang Mine – Indonesia Simplot Australia – Bathurst NSW Simplot Australia – Devonport TAS Simplot Australia – Echuca VIC Simplot Australia – Kelso NSW Simplot Australia – Ulverstone TAS Sugar Australia – Glebe Island NSW Sugar Australia – Mackay Port QLD Sugar Australia – Yarraville VIC Uncle Toby's Company – Smithfield NSW
	
	
	
	
	
	

Develop in-house improvement capability

TPM³ Leadership / Instructor's Program

The TPM³ Leadership / Instructor's Program provides specialist training for employees whose primary role is to lead or facilitate the introduction and implementation of TPM & Lean within their organisation.

To ensure sufficient practical experience is gained in their own workplace, the Program typically spans 3 - 9 months and involves our:

- **2-day Getting TPM & Lean to Work Workshop** (Strategic Focus);
- **3-day TPM³ Advanced Training Workshop** (Tactical Focus); and
- **5-day Live-in TPM³ Leadership/Instructors Course** (Key Attributes Focus).



Key Attributes:

Since 1996 we have observed that the most effective and successful Improvement Co-ordinators, Champions and Team Leaders are those that have been given the opportunity and time to develop not only good interpersonal and team development skills to facilitate change but most importantly the following key attributes:



Understanding of the 'inductive' nature of TPM & Lean as opposed to our more traditional 'deductive' approach to improvement

Skill to handle the sensitive nature of 'pull' change within the workplace as opposed to our more traditional 'push' approach to improvement

Sensitivity to recognise the emotive nature of some of the concepts of TPM & Lean when delivering training to an audience more familiar with traditional thinking

Passion from experiencing success of TPM & Lean in their own workplace

Confidence to present new material to a doubting audience

Experience to handle the tough questions that change generates

Companies that have followed this path have, produced both the best Improvement Leaders / Instructors and achieved the most impressive performance results for their company as demonstrated by the sites that have achieved our 5 Level Milestone TPM³ Excellence Award. See previous page.

To Date: 357 participants from 80 companies throughout Australia, New Zealand, Thailand, India, Indonesia and Saudi Arabia have completed our program

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