

## LEAN MANUFACTURING TOOLS & TECHNIQUES (3 DAYS)

### Programme Synopsis:

#### Value Stream Mapping

- What is Value Stream Mapping?
- Drawing the Current State Map
- Material and Information Flow
- Select the Product Family
- The Start Point
- The Process Box
- The Process Data
- The Inventory Box
- Shipping
- Analysing the Information Flow
- The Current State Timeline
- Drawing the Future State Map
- What Makes the Value Stream Lean?
- Characteristics of a Lean Value Stream
- Toyota Guidelines
- Produce to Takt Time
- Develop Continuous Flow
- Use Supermarkets
- Develop Customer Schedules
- Identify the Pacemaker Process
- Creating Pull
- EPED
- Key Questions
- Supporting Improvements
- Achieving the Future State
- Value Stream Planning
- Value Stream Reviewing
- Key Responsibilities

#### The Seven Wastes

- Overproduction
- Waiting / Idle Time
- Transportation
- Over Processing
- Waster Motion
- Inventory
- Errors / Scraps / Rework
- Elimination of Waste

## Visual Management / 5S

- Objectives of Visual Management
- The Evolution
- Information Problems
- What is a Visual Workplace?
- Organisation
- The 5S's
- Seiri – Sort out the mess and clutter
- Seiso – Select, a place for everything, everything in its place
- Seiton – Shine and spot problems
- Seiketsu – Standardised method, applied by all
- Shitsuki – Sustain, becomes a habit
- The 5 Point Clear Out Check
- The 5 Point Configure Check
- The 5 Point Cleanliness Check
- Evaluation Forms
- Skills Matrix

## TPM / OEE

- Definition of TPM
- Introduction to TPM
- Lifespan Characteristics
- History of TPM
- TPM Goals
- The Relationship between TPM and TQ
- Why Total?
- Results of Successful Implementation
- The Structure
- Data Compilation
- Focused Improvement
- OEE Explanation
- OEE Case Study
- World Class Example
- Ishikawa Analysis of OEE
- The 6 Big Losses
- Continuous Improvement Culture
- The OFI System
- Autonomous Maintenance
- The Link to 5S's
- Planned Maintenance
- Design Maintenance
- The Essentials of TPM
- First Line Maintenance
- Second Line Maintenance
- TPM Don'ts
- What TPM Should Give Us

## SMED

- Definition of SMED
- The History of SMED
- The Relationship with the 7Wastes
- Why do it?
- Typical Set Up Activities
- Internal Activities
- External Activities
- The 6 Improvement Stages
- 6 Useful Techniques
- SMED Checklists (Before / After)
- Typical Benefits
- Written Case Study
- Video Case Study

**Duration:** Three (3) Days

**Course Code:** TSCLEAN

**Certification:** Training Solutions 2000