

What does Continuous Improvement Involve? CI Master Class

Definition: CI is an ongoing effort to improve products, services, or processes. These efforts can seek "incremental" improvement over time or "breakthrough" improvement all at once. Delivery (customer valued) processes are constantly evaluated and improved in the light of their efficiency, effectiveness and flexibility. They are a prime method for driving change in business

CLASSICAL PROVEN TECHNIQUES

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| 1 | PDCA - DEMING Cycle (Plan, Do, Check & Act), Six Sigma, DMAIC (Define, Measure, Analyse, Improve, Control), Route Cause/Fault Tree Analysis, Ishikawa/Fishbone (Cause & Effect) Diagrams, PARETO, Histograms |
| 2 | Total Quality Management (TQM), Lean Tools (Value Stream Mapping, Standard Work, Poke-Yoke, One Piece Flow, TPM, KANBAN Demand Pull, FMEA, SMED Quick Changeover) |
| 3 | Toyota's Kaizen, 5 Whys, 5S (Sifting, Sorting, Sweeping/Cleaning, Spick and Span, Sustain), Visual Management Techniques including daily stand-up meetings |

| ASSESSMENT | TOOLS & TECHNIQUES | ATTRIBUTES & MATURITY |
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| Criteria to establish 'AS IS' State | Methods of moving from the 'AS IS' State to the 'TO BE' State | Attributes to evaluate organisation culture |
| 4 Brainstorming Events | 27 5 Whys is a technique for finding the root cause of a problem | 50 Levels of Respect and Fairness |
| 5 Business Process Flow | 28 Business Process Model and Notation (BPMN) | 51 Levels of Change/Adaptability |
| 6 Company Values | 29 Business Process Mapping & Re-engineering via Burning Platform Initiatives | 52 Levels of Communication |
| 7 Control Charts, Measurement & Check sheets | 30 Catchball - A rapid improvement project then throws out for feedback, support, action | 53 Levels of Decision Making |
| 8 DILLO - Day in the Life of | 31 Check effectiveness of communication channels (send and receive) | 54 Levels of Employee Engagement |
| 9 Employee Skills Assessment | 32 Check employee wellness records, absence, holidays being taken, fitness | 55 Levels of Goals/Strategy flowed down |
| 10 Gemba Walks | 33 Check if employees can move innovative ideas through the organisation | 56 Levels of Learning Opportunities |
| 11 Human Resource Department | 34 Check individual and collective responsibility for actions and results | 57 Levels of Meaning and Purpose |
| 12 Interview & Leavers Process | 35 Check levels of collaboration within teams, between teams, outside teams | 58 Levels of Responsibility and Accountability |
| 13 Kanban Initiatives | 36 Check levels of individual, team and collective support being provided | 59 Levels of Results Orientation Behaviours |
| 14 Lean Initiatives | 37 Check office environment for comfort, efficiency, flow, purpose, space | 60 Levels of Teamwork and Collaboration |
| 15 Mission Statement | 38 Check the performance and reward process to see what is being promoted | 61 Levels of Trust and integrity |
| 16 Organisational Policies | 39 Conduct Interviews and observe behaviours, practices and the environment | |
| 17 Organisational Processes | 40 Conduct surveys to determine employee agility, concerns and well being | 9 Steps of Organisational Maturity (Processes, Products & People) |
| 18 Organisational Quality | 41 Deming Cycle - Plan, Do, Study, Adjust | 62 Process & Practice Maturity - bespoke vs standardised working |
| 19 Participation in Daily Stand-up Meetings | 42 DMAIC Methodology - define, measure, analyze, improve, control | 63 Professional Body Support - make it up vs latest standards/methodologies |
| 20 Six Sigma Initiatives | 43 Hoshin Kanri (also called Policy Deployment) is a strategic planning method | 64 Product Normalisation - new/divergent TRL/MRL vs mature evolving |
| 21 Staff Turnover and Feedback | 44 Problem on a Page (A3) that documents the results from the PDCA cycle | 65 Technical Flexibility - Static Standalone vs Modular Evergreen |
| 22 Standardised colour schemes for symbols | 45 Seiri (sort), seiton (set), seiso (shine), seiketsu (standardize), and shitsuke (sustain) | 66 Product Market Maturity - New customers vs existing customer base |
| 23 Talent Management Initiatives | 46 Skills Framework for the Information Age (SFIA) | 67 Discipline - lack of any vs too strict to allow any initiatives to go ahead |
| 24 Value Stream Mapping | 47 Standard work is the documentation of the best practices for any process or task | 68 Corporate Infrastructure - levels of supporting capabilities to help deliver |
| 25 Visual Management Initiatives | 48 The training and use of change agents within the organisation | 69 Talented People - Time to train resources and let them gain experience |
| 26 WILO - Week in the Life of | 49 Training Needs Analysis to help bring along the Train the Trainers | 70 Knowledge Economy - number of approved problem solving tools & models |
| Why CI Initiatives often fail | Continuous Improvement Principles | Visual Management Principles |
| 71 Business Systems/Processes don't support CI | 77 Improvements are based on small changes, not major paradigm shifts or new inventions | 83 Detect anomalies from baselines, preset values or other criteria |
| 72 Failure to implement a CI Culture | 78 Ideas come from employees and let things fail fast to stop you papering over the cracks | 84 Helps reinforce standards, work ethics, standardised work, escalations |
| 73 Lack of Enduring Corporate Call Up Support | 79 Incremental improvements are typically inexpensive to implement | 85 Ensure stability and safety in the workplace |
| 74 Lack of Management Support | 80 Employees take ownership and are accountable for improvement | 86 Show what is expected from employees, individuals and teams |
| 75 Lack of Motivated Change Agents | 81 Improvement is reflective and requires constant feedback to move forward | 87 Keep people informed about production status and customer needs |
| 76 Lack of Stakeholder Engagement | 82 Improvement is measurable and potentially repeatable | 88 Always visible - Show location, directions, aims, accountability, next steps |

References

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