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| **16 Continuous Improvement** | |  |
| Criteria | Range | Resource identified |
| 16.1 Continuous Improvement Principles and Practices | Principles – reflection and evaluation of processes, incremental change and improvement, Kaizen | <https://leanmanufacturingtools.org/621/what-is-kaizen/> |
| <https://www.theleansixsigmacompany.co.uk/kaizen/> |
| <https://www.kainexus.com/continuous-improvement/best-practices-for-continuous-improvement/incremental-improvement> |
| <https://www.fluere.co.uk/single-post/2019/03/22/step-vs-incremental-change> |
| Principles –key performance indicators (KPIs) | <https://www.leaneast.com/understanding-key-performance-indicators> |
| <https://www.sensrtrx.com/top-manufacturing-kpis/> |
| <https://freedomiot.com/the-5-most-important-lean-manufacturing-metrics/> |
| Principles – implementation (plan, do, check, act – PDCA) | <https://kanbanize.com/lean-management/improvement/what-is-pdca-cycle> |
| <https://www.allaboutlean.com/pdca/> |
| Principles – 8 wastes (transportation, inventory, motion, waiting, excess production, overprocessing, defects, unused talent) | <https://theleanway.net/The-8-Wastes-of-Lean> |
| <https://www.machinemetrics.com/blog/8-wastes-of-lean-manufacturing> |
| <https://blog.kainexus.com/improvement-disciplines/lean/7-wastes-of-lean/everyday-examples-of-the-8-wastes-of-lean> |

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|  | Principles – lean | <https://www.lean.org/> |
|  | <https://www.leanproduction.com/> |
|  | <https://leanmanufacturingtools.org/63/benefits-of-lean-manufacturing/> |
|  | <https://leanmanufacturingtools.org/39/lean-thinking-lean-principles/> |
|  | <https://leanmanufacturingtools.org/34/lean-manufacturing-definition-2/> |
|  | [https://www.theleansixsigmacompany.co.uk/what-is-lean/ and https://www.theleansixsigmacompany.co.uk/lean-manufacturing/](https://www.theleansixsigmacompany.co.uk/what-is-lean/) |
|  | Practices – value stream mapping | <http://leanmanufacturingtools.org/549/vsm-value-stream-mapping/> |
|  | <http://leanmanufacturingtools.org/551/creating-a-value-stream-map/> |
|  | <http://leanmanufacturingtools.org/598/creating-your-ideal-and-future-state-value-stream-map/> |
|  | <https://tallyfy.com/value-stream-mapping/> |
|  | Practices – visual management | <https://www.clarityvisualmanagement.com/technique/vm-visual-management/> |
|  | <https://citoolkit.com/articles/visual-management/> |
|  | <https://www.clarityvisualmanagement.com/sector/bespoke-manufacturing/> |
|  | <https://txm.com/5-types-of-visual-controls/> |
|  | Practices –6S (sort, set in order, shine, standardise, sustain, safety) | <https://leanmanufacturingtools.org/210/lean-6s-5s-safety/> |
|  | <https://leanmanufacturingtools.org/194/benefits-of-implementing-the-5s-process/> |
|  | <https://www.innovaltec.com/6s-blog/> |
|  | <https://www.resco.net/blog/6s-in-manufacturing/> |
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|  | Practices – single minute exchange of dies (SMED) | <https://setupreductiononline.com/> |
|  | <https://www.leanproduction.com/smed/> |
|  | <https://www.theleansixsigmacompany.co.uk/smed-method/> |

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|  | Practices – operation effective efficiency (OEE) | <https://www.oee.com/> |
|  | <https://www.fiixsoftware.com/advanced-cmms-metrics-overall-equipment-effectiveness/> |
|  | <https://www.leanproduction.com/oee/> |
|  | [https://leanmanufacturingtools.org/423/oee/ and https://leanmanufacturingtools.org/443/oee-calculation/](https://leanmanufacturingtools.org/423/oee/) |
|  | Practices – total productive maintenance (TPM) | <https://www.fiixsoftware.com/maintenance-strategies/total-productive-maintenance/> |
|  | <https://www.reliableplant.com/Read/26210/tpm-lean-implement> |
|  | <https://www.leanproduction.com/tpm/> |
|  | Practices – kanban | <https://www.globaltranz.com/what-is-kanban/> |
|  | <https://www.michmfg.com/blog/what-is-kanban-in-manufacturing> |
|  | <https://leanmanufacturingtools.org/kanban/> |
|  | <https://www.theleansixsigmacompany.co.uk/kanban/> |
|  | <https://kanbanize.com/kanban-resources/getting-started/what-is-kanban> |