



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





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/
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/
Practices – single minute exchange of dies (SMED)	https://setupreductiononline.com/ https://www.leanproduction.com/smed/ https://www.theleansixsigmacompany.co.uk/smed-method/





	Practices – operation effective efficiency (OEE)	https://www.oeo.com/ https://www.fiixsoftware.com/advanced-cmms-metrics-overall-equipment-effectiveness/ https://www.leanproduction.com/oeo/ https://leanmanufacturingtools.org/423/oeo/ and https://leanmanufacturingtools.org/443/oeo-calculation/
	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

