



CAREER PATHING SOLUTIONS

SUSTAINABLE SKILLS DEVELOPMENT

Manufacturing Process Controlling SP 0850/13-17

Accreditation held with merSETA: 20 – MER/ACC/002057

Programme Information

Credits: **31**
 Duration: **Three (3) Weeks**
 Minimum no of learners: **8 per session**
 Minimum Qualifying Criteria: **Communication at NQF Level 3.**
Mathematical Literacy at NQF Level 3.

	ID	UNIT STANDARD TITLE	NQF LEVEL	CREDITS
	377381	Apply total quality management (TQM)	4	8
1.		Describe total quality management.		
2.		Explain the role of inspection in a manufacturing company.		
3.		Discuss statistical quality control.		
4.		Explain quality cost management.		
5.		Discuss quality tools and techniques.		
	377380	Describe the function of purchasing and procurement	4	5
1.		Discuss purchasing and procurement and the functional relationships of the purchasing process in a manufacturing environment.		
2.		Explain factors contributing to productivity of the organisation.		
3.		Describe the supplier selection process.		
4.		Discuss the purchase contract and the negotiation process.		
5.		Discuss the purchase cycle.		
6.		Outline the code of practice for Black Economic Empowerment (BEE).		
	377360	Discuss just in time (JIT) and lean manufacturing	3	5
1.		Explain JIT and lean manufacturing.		
2.		Discuss the principles of flow shop manufacturing operations.		
3.		Explain waste and waste elimination.		
4.		Discuss the concept of the theory of constraints.		
5.		Implement continuous improvement in the waste management process.		
	377440	Perform capacity requirements planning (CRP)	4	8
1.		Explain the capacity planning control hierarchy.		
2.		Distinguish between required capacity and available capacity.		
3.		Explain CRP and manufacturing lead time.		
4.		Discuss processing logic of capacity requirements planning.		
5.		Explain outputs of the capacity requirements planning process.		
6.		Critique production activity control.		
7.		Evaluate manufacturing strategies.		
8.		Evaluate the role of priority planning and control in a production activity control environment.		
9.		Evaluate the component parts of the shop floor packet.		
10.		Evaluate the process and tools used in measuring shop floor performance.		
	377386	Perform material requirements planning (MRP)	4	5
1.		Evaluate the materials planning process.		
2.		Evaluate the relationship between MRP and inventory.		
3.		Analyse the role of the bill of material.		
4.		Evaluate the input and output of the MRP process.		
5.		Investigate the use the MRP process in a manufacturing environment.		