

CONVERSION GUIDELINES FOR PLASTIC MOULDER TRADE THEORY FROM NATED (N) COURSES TO UNIT STANDARDS (US)

The purpose of this skills programme is for the successful learner to gain access to the relevant trade test and not to gain credits or part of credits as only relevant specific outcomes addressing the theory part are to be achieved

LEARNING ACTIVITIES	UNIT STANDARD TITLE	MATERIAL AVAILABLE	UNIT STANDARD ID	THEORY	
				SPECIFIC OUTCOME NUMBER	SPECIFIC OUTCOME
Explain occupational safety in accordance with Fitting and Machining Theory N2.	Keep the work area safe and productive	Yes	13220	SO 1	Discuss and explain the purpose of safety equipment and procedures
				SO 1	Identify and explain the purpose of demarcated areas, emergency stops, exits and first aid stations
	Perform basic fire fighting	Yes	12484	SO 1	Discuss and explain procedures for dealing with fires in the workplace
	Perform basic first aid	Yes	12483	U/S EEK	Explains names & functions of: <ul style="list-style-type: none"> <input type="checkbox"/> Accessories <input type="checkbox"/> Work holding fixtures <input type="checkbox"/> Tools (geometry and composition) <input type="checkbox"/> Measuring equipment <input type="checkbox"/> Personal protective equipment <input type="checkbox"/> Common defects
	Maintain static seals in machines and / or equipment	Yes	13219	U/S EEK	Explain names & functions of: <ul style="list-style-type: none"> • Static seals and seal assemblies • Tools and equipment used in replacement and fitting process • Engineering drawings

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Document Number	LPM-GL-015	Date Compiled	13 November 2009
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Revision Number	Rev 01	Access	Controlled
Review: Learning Programme Manager		Approved: CEO	

					<ul style="list-style-type: none"> Quality terminology and concepts Defects on static seals and seal assemblies
	Maintain direct drives	Yes	13280	SO 9	Discuss and explain incidents and problems related to direct drive maintenance.
	Maintain brakes and clutches	Yes	13282	SO 9	Discuss and explain incidents and problems related to brake and clutch maintenance.
Explain limits and fits in accordance with Fitting and Machining Theory N2.	Select, use and care for engineering measuring equipment	Yes	12476	SO 1	Explain and discuss basic units of measure and symbols
	Read, interpret and produce basic engineering drawings	No	12215	SO 1	Discuss and explain basic engineering drawing concepts and material lists
	Produce detailed engineering drawings	No	13298	SO 2	Perform calculations to produce drawing
	Mark off regular engineering shapes	No	335897	SO 1	Plan and prepare materials and equipment for marking off and use equipment to draw shapes
Explain bearings in accordance with Fitting and Machining Theory N2.	Identify engineering materials, their characteristics and applications and common metal tests used in engineering	Yes	12477	SO 2	Discuss the physical properties of engineering materials used in common engineering applications
	Maintain bearings in machines and equipment	Yes	13283	SO 8	Discuss and explain incidents and problems related to bearing replacement
Explain lubrication in accordance with Fitting and Machining Theory N2.	Perform routine maintenance	Yes	13221	SO 7	Discuss and explain incidents and problems related to performing routine maintenance
	Maintain lubricating systems	Yes	13277	SO 7	Discuss and explain incidents and problems related to maintain the lubrication system
Explain valves in accordance with Fitting and Machining	Maintain pipe systems	Yes	13218	SO 7	Discuss and explain incidents and problems related to pipe system maintenance

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Theory N2.	Maintain safety valves	Yes	13326	SO 8	Discuss and explain incidents and problems related to safety valve maintenance
Explain packing, stuffing boxes and joints in accordance with Fitting and Machining Theory N2.	Maintain static seals in machines and / or equipment	Yes	13219	EEK	Names & functions of: Static seals and seal assemblies ; Tools and equipment used in replacement and fitting process ; Engineering drawings; Quality terminology and concepts; Defects on static seals and seal assemblies
Explain water pipe systems in accordance with Fitting and Machining Theory N2.	Maintain pipe systems	Yes	13218	SO 7	Discuss and explain incidents and problems related to pipe system maintenance
Explain pumps in accordance with Fitting and Machining Theory N2	Maintain pumps	Yes	13276	SO 1	Identify and discuss the applications of positive displacement pumps
Explain compressors in accordance with Fitting and Machining Theory N2.	Maintain compressors	Yes	13323	EEK	Names & functions of: <input type="checkbox"/> Types of compressors. <input type="checkbox"/> Compressor components. <input type="checkbox"/> Tools and equipment used in the compressor maintenance process. <input type="checkbox"/> Quality terminology and concepts.
Explain V-belt drives in accordance with Fitting and Machining Theory N2	Maintain indirect drives	Yes	13216	SO 1,2	Plan and prepare for direct drive maintenance. Prepare site and equipment for direct drive maintenance.
Explain gear drives in accordance with Fitting and Machining Theory N2.	Maintain direct drives	Yes	13280	SO 9	Discuss and explain incidents and problems related to direct drive maintenance
Explain chain drives in accordance with Fitting and Machining Theory N2	Maintain indirect drives	Yes	13216	SO 1	Plan and prepare for indirect drive maintenance.

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Explain reduction gearboxes in accordance with Fitting and Machining Theory N2.	Maintain gearboxes	No	13325	SO 8	Discuss and explain incidents and problems related to gearbox maintenance
Explain hydraulics and pneumatics in accordance with Fitting and Machining Theory N2.	Maintain fluid power / pneumatic systems	No	13321	SO 8	Discuss and explain incidents and problems related to system maintenance
Explain milling machines in accordance with Fitting and Machining Theory N2	Operate and monitor a milling machine	No	258678	U/S EEK	
	Operate and monitor a drilling machine to produce simple components	No	13214	U/S EEK	
	Produce components by performing milling operations	No	258718	U/S EEK	Names & functions of: <input type="checkbox"/> Accessories <input type="checkbox"/> Work holding fixtures <input type="checkbox"/> Tools (geometry and composition) <input type="checkbox"/> Measuring equipment <input type="checkbox"/> Personal protective equipment <input type="checkbox"/> Common defects on components
	Grind tools and drill bits	No	13297	U/S EEK	
	Conduct advanced milling operations and methods	No	258680	U/S EEK	
	Explain the centre lathe in accordance with Fitting and Machining Theory N2.	Operate and monitor a lathe to produce simple components	No	13205	U/S EEK

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	Produce components by performing engineering turning operations	Yes	13295	EEK	Be able to carry out milling machining operations with a range of accessories and tools
	Grind tools and drill bits	Yes	13297	EEK	Able to carry out grinding operations to make and sharpen tools
	Produce complex components using lathes	Yes	13314	EEK	
Explain surface grinding machines in accordance with Fitting and Machining Theory N2.	Operate and monitor a surface grinding machine to produce simple components	No	13215	EEK	
	Produce components by performing engineering grinding operations	No	13294	EEK	
Property of materials	Test the physical properties of engineering metals	No	13274	EEK	
	Perform heat treatment processes on engineering metals	No	13275	SO 1	Discuss and explain the heat treatment of metals

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