

## NATIONAL CERTIFICATE IN WOOD TECHNOLOGY: LUMBER MILLING (SAW DOCTORING) LEVEL 2

	<u>UNIT STANDARD TITLE</u>	<u>UNIT STANDARD NQF LEVEL</u>	<u>UNIT STANDARD CREDIT</u>	<u>SAQA UNIT STANDARD ID NUMBER</u>
	<b>FUNDAMENTAL</b>			
1	Maintain and adapt oral communication	2	5	
2	Access and use information from texts	2	5	
3	Write for a defined text	2	5	
4	Use language and communication in occupational learning programmes	2	5	
5	Demonstrate understanding of rational and irrational numbers, and number systems, within the context of relevant calculations	2	3	8982
6	Use mathematics to investigate and monitor the financial aspects of personal and community life	2	2	8983
7	Apply basic knowledge of statistics in order to investigate life and work related problems	2	3	9009
8	Measure, estimate and calculate physical quantities and explore, describe and represent geometrical relationships in 2-dimensions in different life or workplace contexts	2	3	9008
9	Work with a range of patterns and functions to solve problems	2	5	9007
	<b>CORE</b>			
10	Demonstrate understanding of basic operation of Saw Shop in Lumber Mill	2	5	
11	Demonstrate understanding of care and use of grinding wheels used for saw blade, knife and cutter maintenance in Saw Doctor Shop of Lumber Mill	2	5	
12	Inspect used saw blades before and after servicing in Saw Shop of Lumber Mill	2	2	
13	Demonstrate understanding of welding and brazing of saw blades using oxygen / acetylene during maintenance in Saw Shop of Lumber Mill	2	10	
14	Demonstrate understanding of welding of saw blades using Metal Inert Gas (MIG) and Tungsten Inert Gas (TIG) in Saw Shop of Lumber Mill	2	5	
15	Manually set and sharpen spring set saw blades used in Lumber Mill	2	5	
16	Set and sharpen swaged tooth saw blades used in the Lumber Mill	2	10	
17	Sharpen and set up knives and profile cutters used in Lumber Mill	2	4	
18	Demonstrate understanding of different parts of tree and its stem on cross section	2	5	
19	*Demonstrate understanding of relevant aspects of the Labour Relations Act	2	1	
20	*Demonstrate understanding of relevant aspects of the Employment Equity Act	2	1	
21	*Demonstrate understanding of relevant aspects of the Skills Development Act	2	1	
22	*Demonstrate understanding of relevant aspects of Basic Conditions of Employment Act	2	1	
23	*Demonstrate understanding of relevant aspects of computer literacy	2	1	
24	*Demonstrate understanding of relevant aspects of business principles	2	1	
25	*Demonstrate understanding of relevant principles of environmental management	2	1	
26	*Demonstrate understanding of relevant aspects of quality management	2	1	

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	<b>ELECTIVE (at least 30 credits)</b>			
27	Demonstrate understanding of relevant aspects of Lumber Milling mathematics and / or	2	16	
28	Follow procedures to assist in setting up green timber processing facilities and / or	2	15	
29	Demonstrate understanding of details of dry milling process and / or	2	20	
30	Follow procedures to assist to set up and operate finger-jointing and laminating equipment and / or	2	20	
31	Demonstrate understanding of details of lumber grading	2	20	

\* The Unit Standards for those marked with asterisks in the “Core” components of learning will have to be drawn from other organizing fields, or will have to be developed. They are not industry specific and have therefore not been developed by the Lumber Milling SGB.