

## NATIONAL CERTIFICATE: CHEMICAL PULP MANUFACTURING: HORIZONTAL CONTINUOUS DIGESTER NQF LEVEL 4

	<u>UNIT STANDARD TITLE</u>	<u>UNIT STANDARD NQF LEVEL</u>	<u>UNIT STANDARD CREDIT</u>	<u>UNIT STANDARD ID NUMBER</u>
	<b>FUNDAMENTAL</b>			
1	Demonstrate knowledge and understanding of HIV/AIDS in a workplace and its effects on a business sub-sector, own organization and a specific workplace	3	4	13915
2	Accommodate audience and context needs in oral communication	3	5	8968
3	Interpret and use information from texts	3	5	8969
4	Write texts for a range of communicative contexts	3	5	8970
5	Use language and communication in occupational learning programmes	3	5	8973
6	Manage work time effectively	3	3	9530
7	Develop learning strategies and techniques	3	3	12457
8	Engage in sustained oral communication and evaluate spoken texts	4	5	8974
9	Read, analyse and respond to a variety of texts	4	5	8975
10	Write for a wide range of contexts	4	5	8976
11	Use language and communication in occupational learning programmes	4	5	8979
12	Use mathematics to investigate and monitor the financial aspects of personal, business and national issues	4	6	9014
13	Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems	4	6	9015
14	Represent, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts	4	4	9016
	<b>CORE</b>			
15	Apply safety, health and environmental protection procedures	3	6	13223
16	Apply quality procedures	3	8	13234
17	Understand the fundamental process principles of screening and cleaning pulp suspensions	3	10	114257
18	Remove spent liquor contaminants from pulp	3	17	114268
19	Produce bagasse pulp using a horizontal continuous digester	4	29	114245
20	Understand the operating principles, processes and variables associated with chemical pulping	4	12	114263
	<b>ELECTIVE</b>			
21	Operate a personal computer system	2	6	7547
22	Produce and use spreadsheets for business	3	5	7567
23	Produce word processing documents for business	3	5	7570
24	Demonstrate understanding of the water treatment and effluent treatment processes in the pulp and paper industry	3	10	110030
25	Generate chlorine dioxide for pulp bleaching	3	30	114244
26	Produce bleached pulp	3	29	114247
27	Reduce wood chips to thermo mechanical pulp	3	26	114249
28	Prepare chemical additives used in the pulp and paper industry	3	4	114251
29	Reduce logs to groundwood pulp	3	22	114254
30	Perform physical and chemical tests on raw materials, pulp and chemicals used in pulp making	3	12	114258

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31	Understand the properties of fibrous materials used in pulp and paper manufacturing	4	10	114246
32	Prepare and supply washed and depithed bagasse	3	14	114262
33	Understand the processes and variables in mechanical pulping	4	10	114266
34	Understand the operating principles, processes and variables associated with pulp bleaching	4	10	114270