

NATIONAL CERTIFICATE: CHEMICAL PULP MANUFACTURING: BATCH 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> |
|----|--|--------------------------------|-----------------------------|--------------------------------|
| | FUNDAMENTAL | | | |
| 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 |
| | CORE | | | |
| 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 chemical pulp from wood chips using a batch digester | 4 | 37 | 114241 |
| 20 | Understand the operating principles, processes and variables associated with chemical pulping | 4 | 12 | 114263 |
| | ELECTIVE | | | |
| 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 | Understand the processes and variables in mechanical pulping | 4 | 10 | 114266 |
| 33 | Understand the operating principles, processes and variables associated with pulp bleaching | 4 | 10 | 114270 |