

## **Occupational Certificate: Chemist (Surface Coatings Technologist) Practitioner (NQF Level 5)**

### **Qualification ID 96367**

This is a new qualification registered on the Occupational Qualifications Sub-framework of the National Qualifications Framework (NQF). The qualification falls within the ambit of the Quality Council for Trades and Occupations (QCTO). SAPMA has been appointed by the QCTO as Assessment Quality Partner (AQP) for this qualification.

### **Entry Requirements**

Any person with at least an NQF Level 4 qualification with Mathematics and Science as subjects or has successfully completed the SAPITI Basic Science Module.

### **Content of the Qualification**

This qualification consists of the following compulsory Theory/Knowledge and Practical Skills Modules:

Theory/Knowledge Modules:

- 211301001-KM-01, Basic Surface Coatings Technology, NQF Level 4, 9 Credits.
- 211301001-KM-02, Surface Coatings Application, NQF Level 4, 9 Credits.
- 211301001-KM-03, Solvents and binders, NQF Level 5, 10 Credits.
- 211301001-KM-04, Pigmentation and Dispersion, NQF Level 5, 12 Credits.
- 211301001-KM-05, Modifiers, NQF Level 5, 7 Credits.
- 211301001-KM-06, Testing of surface coatings, NQF Level 5, 6 Credits.
- 211301001-KM-07, Convertible binders, NQF Level 5, 12 Credits.
- 211301001-KM-08, Formulating Principles, NQF Level 5, 6 Credits.
- 211301001-KM-09, Basic Project Management and Information Management, NQF Level 4, 6 Credits.
- 211301001-KM-10, Managing interpersonal relationships in the Surface Coatings Industry, NQF Level 4, 6 Credits.

Total number of credits for Knowledge Modules: 83.

Practical Skills Modules:

- 211301001-PM-01, Develop design parameters of surface coatings formulations, NQF Level 6, 16 Credits.
- 211301001-PM-02, Optimise the field performance of finished surface coatings products, NQF Level 6, 16 Credits.
- 211301001-PM-03, Provide technical specifications, advice and information leading to satisfaction of internal and external customers, NQF Level 6, 16 Credits.

Total number of credits for Practical Skills Modules: 48.

This qualification also requires the following Work Experience Modules:

211301001-WM-01, Surface coatings design processes, NQF Level 5, 20 Credits.

## **Summary of the Curriculum**

[www.sapma.org.za/training-education/technical/](http://www.sapma.org.za/training-education/technical/)

[www.qcto.org.za](http://www.qcto.org.za)

Follow the link to download the full curriculum and assessment specifications from the QCTO website.

The knowledge and practical skills components of the learning programme are offered by the South African Paint Industry Training Institute.

For the workplace component a learner needs to be employed by an organisation that has been approved by SAPMA as a suitable workplace provider.

## **External, Integrated Summative Assessment (EISA)**

After completion of all three components of the qualification the learner must enrol for the External Integrated Summative Assessment (EISA)

The EISA is a written exam. The qualification is awarded by the QCTO after successful completion of the EISA and the Practical Skills and Workplace assessments.

The External Integrated Summative Assessment (EISA)

The EISA is a national exam that is meant to ensure a uniform standard for the qualification.

The exam is set and administered by the South African Paint Manufacturer's Association (SAPMA)

Candidates can only register for this exam if they have successfully completed the knowledge, practical skills and workplace components of the Occupational Certificate: Chemist (Surface Coatings Technologist) or if they comply with the recognition of prior learning requirements set out below.

The exam is set in such a way that candidates are required to integrate knowledge, practical skills and work experience i.e. the emphasis is on the application of what they have learned. The exam is strictly controlled by the QCTO and has to comply with all their regulations.

## **EISA 2017**

The next EISA will be written in May 2017

The specific dates, time and venue will be announced.

The EISA consists of one two hour paper. An additional thirty minutes' reading time is allowed for before attempting the paper.

The exam paper will be in English and candidates are expected to answer in English.

A candidate who wishes to write the EISA must have:

- Passed all the eight modules of the Surface Coatings Technologist program offered by the South African Paint Industry Training Industry administered by SAPMA
- Completed the Practical Skills and Workplace component of the Occupational Certificate: Chemist (Surface Coatings Technologist) at a SAPMA approved workplace.

Candidates who wish to enrol for the exam must apply on the official application form and submit the form, all the supporting documentation and proof of payment of the exam registration fee to:

[sapma@sapma.org.za](mailto:sapma@sapma.org.za)

[Download Registration Form](#)

### **Access to the EISA through the Recognition of Prior Learning (RPL)**

Candidates who have been working in the coatings industry and who have previously passed all of eight Modules of the Surface Coatings Technology curriculum and who wish to obtain the Occupational Certificate: Chemist (Surface Coatings Technologist) may apply to write the EISA, provided that they comply with the RPL requirements set by SAPMA

Candidates who wish to enter via the RPL route have to fill in the EISA registration form and submit it, together with the required documentation and proof of payment of the EISA registration fee before the registration closing date to [sapma@sapma.org.za](mailto:sapma@sapma.org.za)

Please note that all applications will be considered by the SAPMA Education Committee. The Education Committee has the right to call any candidate for an interview to assess the candidate's knowledge and/or evaluate the candidate's work experience. The committee may require the candidate to undergo specific theoretical, practical or work-based training before allowing him/her to enter the EISA.

### **RPL Requirements**

[Download RPL Policy](#)

2016 SAPMA Member Registration Fee:	R 9,600.00
2016 Non-member Registration Fee:	R11,500.00
RPL Registration Fee:	Quote to be requested

Candidates who have registered and who comply with all the admission requirements will receive a letter of confirmation from SAPMA. This letter must be presented at the exam venue on the exam day. The letter will contain further information on the exams.

### **Exemplar Paper**

[Download Exemplar Paper](#)

[Download Exemplar Marking Memo](#)

In order to assist candidates with their preparation for the EISA, one exemplar paper with marking sheet has been prepared.

## Registered Assessment Practitioners

### Mr RE Hoddinott

#### Qualifications

- National Diploma for Technicians – Analytical Chemistry  
Witwatersrand College for Higher Education 1972
- National Technical Diploma – Production Engineering  
Germiston College for Higher Education 1974
- National Technical Certificate – NTC V  
Germiston College for Higher Education 1973
- ETDP Unit Standard 115753 Conduct outcomes based Assessment 2014
- ETDP Unit Standard 115759 Conduct Moderation of outcomes based Assessment 2015

#### Management Training

- Shell Chemicals Senior Management Course – Lensbury UK 1983
- Executive Leadership Programme – Leadership Trust UK 1986
- Senior Marketing Course – Graduate School of Business 1990
- Supervisory Skills, change Management, Industrial Relations, finance for Non-Financial Managers, Presentation Skills, Interpersonal Skills.

#### Employment Record

- |                                               |                                                                                                                                |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| • 1966 – 1969 National Chemical Products      | Laboratory Technician                                                                                                          |
| • 1970 – 1971 Groovy Beverages                | Flavour Blend Technician                                                                                                       |
| • 1971 – 1976 Shell Chemicals                 | Lab Technician/Asst. Plant Manager                                                                                             |
| • 1977 – 1978 Shell Chemicals UK Ltd          | Technologist for Epoxy Manufacture                                                                                             |
| • 1978 – 2000 Shell Chemicals SA (Pty) Ltd    | Plant Manager/Operations Manager<br>Business Unit Manager - Epoxies<br>National Sales Manager,<br>Business Development Manager |
| • 2000 – 2002 Shell Epoxy Resins SA (Pty) Ltd | Managing Director                                                                                                              |
| • 2002 – 2008 Servochem (Pty) Ltd             | Product Manager – Epoxies<br>Operations Manager – Durban                                                                       |
| • 2008 – 2011 Servochem (Pty) Ltd             | Consultant                                                                                                                     |
| • 2011 – SAPMA                                | Subject Matter Expert, Assessor & Moderator<br>Chairman of AQP Committee                                                       |

### Mr JRS Reid

#### Qualifications

- Bishops Stortford College, UK 1945 -1954
- Natural Sciences Tripos, 1<sup>st</sup> Class Honours in Organic Chemistry  
Trinity Hall, Cambridge, UK 1960
- BA 1957
- MA 1960
- FTSC by the Oil & Colour Chemists Association 1980
- Science Natural - South African Council for Natural Scientists 1988
- ETDP Unit Standard 115753 Conduct outcomes based Assessment 2004
- ETDP Unit Standard 115759 Conduct Moderation of outcomes based Assessment 2015

#### Committee Leadership

- 1981 – Member of ASTM Committee D1 on Paint
- 1981 – Member of SAPMA Technical Committee  
Chairman 1986–1988, 1990–1992, 1994–1996, 1998–2000.
- 1977 – Member of various SABS Technical Committees
- 2007 – Chairman SABS TC35
- 1988 – Member of ISO TC35 and sub-committees
- 1988 – 1990 South African Transport Services – Delegated Inspector

## Employment Record

- 1960 – 1967 Pinchin Johnson Paints, UK Senior Chemist/Dept. Head
- 1968 – 1969 Pinchin Johnson Paints, UK Assistant Chief Chemist
- 1969 – 1972 Plascon Evans Paints, Durban Resin Chemist
- 1972 – 1977 Fergusson's Paints, Durban Chief Chemist
- 1977 – 1983 Fergusson's Paints, Durban Product Development Director
- 1983 – 1988 AECI Paints, Durban Senior Development Manager
- 1988 – 1991 AECI Paints / Dulux, Alrode Technical Manager
- 1991 – 2000 Dulux / ICI Dulux, Alrode Technical Administration Manager
- 2000 – SAPMA Subject Matter Expert, Assessor & Moderator