

PO Box 893  
Sasolburg  
1947  
South Africa  
E-mail:  
[elsimarie.gloy@sasol.com](mailto:elsimarie.gloy@sasol.com)  
Cell: +27 82 775 7494

March, 2018

To whom it may concern

I am a **Senior Process Safety Engineer (Pr.Eng)** with more than **20 years' experience** as a Chemical Engineer in the Petrochemical industry. Which includes support and design of plants like Solvents (butanol), Liquefied gases, waxes, ammonia, explosives as well as LPG units.

My **qualifications** are B.Eng (Chemical) degree and MBA (Business administration).

My experience varies from Technical support in the production environment to Production Management. For more than 10 years I have done **Process Safety Engineering** for capital projects as well as **Process safety Support** for Operational plants and Brownfield projects. I assisted new projects in developing the **Process Safety Management** system for the plants, and doing **PSSR** audits.

I have developed our company's **Pre Start-up safety review procedure** and handled the implementation thereof.

My **facilitation** experience varies from PHA, HAZOP, FMEA and SIL reviews, and I am also a registered **AIA MHI (Major Hazardous Installation) assessor**, doing QRA's (Quantified risk assessments) by using Phast and Safeti simulation software.

I am registered as a professional Process Engineer with ECSA (Engineering Council of South Africa).

Please see my CV attached.

Sincerely,

Elsimarie Glöy  
Senior Process Safety Engineer

**CURRICULUM VITAE**

**of**

**ELSIMARIE GLÖY**

**Senior Process Safety Engineer (Pr.Eng)**

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## 1. Personal Data:

Surname	:	Glöy
First Names	:	Elsimarie
Married	:	Yes
Age	:	44
Date of Birth	:	13 March 1974
Identity Number	:	7403130022089
Nationality	:	South African
Drivers License	:	Yes, Code 08
Home address	:	198 Visarend Street Vaaloewer 1900
Postal address	:	P.O. Box 893 Sasolburg 1947 South Africa
Tel (cell)	:	+27 82 775 7494
Tel (work)	:	+27 16 960 3131
E-Mail Address	:	<a href="mailto:elsimarie.gloy@sasol.com">elsimarie.gloy@sasol.com</a>
Home Language	:	Afrikaans
Other Languages	:	English
Fully / Semi-bilingual	:	Fully bilingual.
Criminal offences	:	None
Health	:	Excellent

## **2. Summary**

- 10 years experience as an accredited MHI (Major Hazardous Installations) assessor for Sasol, (accredited by SANAS) – doing QRA's.
- 10 years experience in Advanced Process Safety Simulation Software from DNV: Phast and Safeti.
- 10 years experience in Facilitation of Hazop's, SIL reviews, LOPA, PHA's, PSSR, MFD reviews.
- 11 years experience in Process Safety support for Projects and new Plant design.
- 5 years experience in Production Plant engineering support and Production Management.
- 20 years in total work experience as Process Engineering.
- B.Eng Degree in Chemical Engineering.
- MBA (Masters in Business Administration) Degree.
- Registered as Professional Engineer at ECSA.

### 3. Work history

<b>Employer</b>	:	Sasol Group Technology, South Africa
<b>Employment period</b>	:	February 2006 – Current
<b>Job Title</b>	:	Senior Process Safety Risk Engineer Process Safety Engineering Group Sasol Technology <b>(AIA Accredited to conduct Quantitative Risk Assessments for Sasol.)</b>
<b>Duties</b>	:	<ul style="list-style-type: none"> <li>• Guide Project teams in developing Process Safety Management systems for New plants</li> <li>• Responsible for the development and maintenance of a Pre Start-up safety review (PSSR) policy for new projects</li> <li>• I have given training for project teams on the PSSR philosophy</li> <li>• Doing Pre Start-up safety Reviews for new projects before commissioning</li> <li>• Develop Process Safety information for new projects for the PSM system</li> <li>• Doing Risk analyses for Plant layout</li> <li>• Doing Quantitative Risk analyses on Phast and Safeti software to determine the individual risk and Societal risk on the public, as well as calculating the effect of possible hazardous scenarios on surrounding areas.</li> <li>• Plant layout studies to assist in safe plant layouts, preventing process safety incidents.</li> <li>• Facilitate Hazop studies</li> <li>• Facilitate SIL reviews</li> <li>• Facilitate MFD's Reviews</li> <li>• Facilitate Design Reviews</li> <li>• Facilitate PHA studies (For existing process plants and new projects)</li> <li>• Assist project teams to adhere to Process Safety</li> </ul>

		<p>requirements according to world best practices.</p> <ul style="list-style-type: none"> <li>• Evaluating Safety process design and support project team to improve Process Safety in Design phase of projects.</li> <li>• Assist Process plants on Process Safety concerns.</li> </ul>
<b>Employer</b>	:	Sasol Solvents and O&S, South Africa
<b>Employment period</b>	:	October 2005 – January 2006
<b>Job Title</b>	:	Senior Process Engineer Technical Support Group Solvents Sasol 1
<b>Duties</b>	:	<ul style="list-style-type: none"> <li>• Process Safety system maintenance for operations plant</li> <li>• Optimizing Production on plants</li> <li>• Day-to-day Technical Support for Sasol 1 site</li> <li>• Liaising with Sastech design Teams for implementation of Projects</li> <li>• Optimizing integrated systems on Solvents site</li> <li>• Technical support for Solvents Germiston site</li> </ul>
<b>Employer</b>	:	Sasol Solvents and O&S, South Africa
<b>Employment period</b>	:	Jul 2004 – September 2005
<b>Job Title</b>	:	Acting Production Manager Butanol Plant
<b>Duties</b>	:	<ul style="list-style-type: none"> <li>• Development of career paths for operations personnel.</li> <li>• Implementation of integration strategy for production – Change management</li> <li>• Management of 4 operation shifts</li> <li>• Day-to-day management of production issues</li> <li>• Daily/weekly production planning</li> <li>• Planning and management of shutdown</li> <li>• Liaise with service providers and feedstock suppliers</li> </ul>

		<ul style="list-style-type: none"> <li>• Liaise with Business Managers</li> <li>• Liaise with Logistics</li> <li>• Manage Customer complaints</li> <li>• Manage Safety systems on Plant</li> <li>• Develop optimization strategies for plant</li> <li>• Change management of integration of SMG operations at Butanol production</li> <li>• Support Business strategy by implementation of production plans.</li> </ul>
<b>Employer</b>	:	Sasol Solvents and O&S, South Africa
<b>Employment period</b>	:	Feb 2002 – Jun 2004
<b>Job Title</b>	:	Senior Process Engineer. Technical Support Group leader. Butanol Plant
<b>Duties</b>	:	<ul style="list-style-type: none"> <li>• Support the Young Chemical Engineers development group as Solvents Midland representative</li> <li>• Being part of Bursary selection program</li> <li>• Commission Butanol Plant</li> <li>• Solve commissioning technical problems</li> <li>• Maintain Process safety system for operations plants.</li> <li>• Develop and implement MOC system for Midland</li> <li>• Develop and implement Measurement system for production</li> <li>• Develop day-to-day Critical parameters for production purposes</li> <li>• Manage Technical support group</li> <li>• Coordinate all Technical support actions and feedback</li> <li>• Support Production team with technical knowledge and suggestions</li> <li>• Day-to-day evaluation of plant performance</li> <li>• Optimization of plant performance</li> </ul>



		<ul style="list-style-type: none"> <li>• Day-to-day technical problem Solving</li> <li>• Project Research</li> <li>• Coordinating implementation of modifications</li> <li>• Liaise with production management</li> </ul>
<b>Employer</b>	:	Sastech Research and Development, Sasolburg, South Africa
<b>Employment period</b>	:	Dec 1997 – Jan 2002
<b>Job Title</b>	:	Process Engineer Pilot Plants
<b>Duties</b>	:	<ul style="list-style-type: none"> <li>• Design</li> <li>• Problem Solving</li> <li>• Day-to-day plant support</li> <li>• Modifications design and implementation</li> <li>• Project Coordination</li> </ul>
<b>Employer</b>	:	SASOL Engineering Services, Secunda, South Africa
<b>Employment period</b>	:	Jan 1997 – Nov 1997
<b>Job Title</b>	:	Assistant Process Engineer Water and Ash
<b>Duties</b>	:	<ul style="list-style-type: none"> <li>• Design</li> <li>• Problem Solving</li> <li>• Project Research</li> <li>• Project Coordination</li> </ul>

## 4. Qualifications

### 4.1. Professional:

- Registered as Professional Engineer at ECSA (Engineering Council of South Africa)- Registration nr: **20130238**
- Member of SAICHE (South African Institution of Chemical Engineers)- Membership nr: **006918**
- Trained as a Hazop, SIL, LOPA, PHA and MFD review facilitator.
- Trained in Advanced Process Safety Simulation Software from DNV: “Phast and Safeti”.

### 4.2. Tertiary:

University	:	Potchefstroom University, South Africa
Highest qualification	:	<b>MBA</b>
Year achieved	:	2002

University	:	Potchefstroom University, South Africa
Highest qualification	:	<b>B. Eng. (Chemical)</b>
Year achieved	:	1996

### 4.3. Secondary:

High School	:	Potchefstroom Gimnasium
Highest Standard	:	Std. 10 with exemption
Year	:	1992

## 5. Leadership positions

<b>Work</b>	:	Engineering Technical Support group leader	(2001 – 2004)
	:	Acting Production Manager Butanol Plant	(2004 – 2005)
	:	Hazop Leader	(2006 – current)
	:	PSSR Leader	(2006 – current)
<b>University</b>	:	Engineering student Association	