

NICK GROBLER - CURRICULUM VITAE

Nick Grobler is a Chemical Engineering graduate who has joined Airshed Planning Professionals (Pty) Ltd in May 2011 and is being trained in the compilation of emission inventories, air pollution mitigation and management, and air pollution impact work.

1. LANGUAGE CAPABILITIES

Fluent in English and Afrikaans

2. CURRENT AFFILIATION

Airshed Planning Professionals (Pty) (May 2011 to present).

- Experience:
 - Emissions inventory compilation
 - Meteorological data processing and preparation
 - Dispersion modeling
 - Impact and compliance assessment
 - Air quality and dust management plan preparation
 - Report writing

3. MEMBERSHIPS

- South African Institution of Chemical Engineers (2009 to present)
- Golden Key Honour Society (2011 to present)

4. ACADEMIC QUALIFICATIONS

- BEng: (Chemical Engineering), 2009, *University of Pretoria*
- BEng (Hons): (Environmental Engineering) 2010, *University of Pretoria*; With Distinction

5. PREVIOUS TECHNICAL EXPERIENCE

- 2006 Industrial Training at ChemCity (Investigating the economic feasibility of a guar gum processing plant and design of a ferric sulphate drying plant).
- 2008 Industrial Training Environmental and Process Solutions (Pty) Ltd (Water balance development for the Assmang Sishen iron ore mine, Feasibility study; Algae biodiesel as a means of carbon sequestration).
- 2009 Final Year Design: Nitric Acid Plant.
- 2005 Final Year Research Project: Ultrafiltration as a pretreatment process for Reverse Osmosis.

6. EXPERIENCE WITH REGARDS TO AIR QUALITY AND NOISE IMPACT ASSESSMENTS

- Models applied to date include:
 - ADDAS (wind erosion emission model);
 - WRPLOT (wind & pollution rose generation);
 - METREADER (preparing meteorological data for dispersion models);
 - ADMS (air dispersion model);
 - AERMOD/AERMET (air dispersion model);
- Industry sectors in which experience have been gained with specific reference to air quality:
 - Cement production and limestone mining.
 - Opencast and underground mining (Iron and Copper)