

# INTERNATIONAL CYANIDE MANAGEMENT INSTITUTE **Auditor Credentials Form**

**Facility Audited:** GoldFields South Deep Gold Mine

Date: 12-15 February 2018

### **Auditor and Technical Specialist Credentials:**

Auditor:

**Edward Clerk** 

Auditor Certification Number:

105995 (Lead Environmental and Lead Occupational Health and Safety)

Certifying Organisation:

Exemplar Global

Telephone Number: Address:

+61 2 4728 4600

Suite 12, 308 High Street, Penrith NSW, Australia 2750

Web Site Address: www.exemplarglobal.org

Year	Type of Facility, Type of Audit Led	Country & State/Province
	Transportation - International Cyanide Code Certification Aud	its
2017	Lead Auditor and Technical Specialist for Heibi Global Marine Supply Chain Global	
2016	Lead Auditor and Technical Specialist for FP Du Toit Transport Pty Ltd	Namibia
2016	Lead Auditor and Technical Specialist for Newcrest's Lihir Gold Mine Transportation Supply Chain	Papua New Guinea
2016	Lead Auditor and Technical Specialist for Allships Limited	Ghana
2016	Lead Auditor and Technical Specialist for CSTT-AO Senegal	Senegal
2016	Lead Auditor and Technical Specialist for Bollore Senegal	Senegal
2016	Lead Auditor and Technical Specialist for Bollore Ghana	Ghana
2015	Lead Auditor and Technical Specialist for Trident Shipping	Ivory Coast
2015	Lead Auditor and Technical Specialist for Movis Ghana Limited	Ghana
2015	Lead Auditor and Technical Specialist for Bollore Ivory Coast	Ivory Coast
2014	Lead Auditor and Technical Specialist for Stellar Logistics	Ghana
2014	Lead Auditor and Technical Specialist for Satellite Trans	Ghana
2014	Lead Auditor and Technical Specialist for Orica Australia's West Africa Supply Chain Amendment	West Africa
2014	Lead Auditor and Technical Specialist for Toll (PNG) Ltds Supply Chain	Papua New Guinea
2014	Lead Auditor and Technical Specialist for AGR Ocean Supply Chain	Global
2014	Lead Auditor and Technical Specialist for AGR Argentina Supply Chain	Argentina
2014	Lead Auditor and Technical Specialist for United Mining Services Certification Audit	Republic of Guinea
2014	Lead Auditor and Technical Specialist for AGR Asia Supply Chain	Thailand
2014	Lead Auditor and Technical Specialist for Orica Asia Supply Chain	Thailand
2014	Lead Auditor and Technical Specialist for Pioneer Ocean Freight Supply Chain, Thailand	Thailand
2014	Lead Auditor and Technical Specialist for AGR Brazil Supply Chain	Brazil
2013	Lead Auditor and Technical Specialist for Stellar Logistics	Ghana
2013	Lead Auditor and Technical Specialist for Hidden Valley Transport	Papua New Guinea
2013	Lead Auditor and Technical Specialist for Kinross Gold's Russian Supply Chain	Russia
2013	Lead Auditor and Technical Specialist for Toll's Australian Supply Chain	Australia





Year	Type of Facility, Type of Audit Led	Country & State/Province	
2013	Lead Auditor and Technical Specialist for Orica's Australian Supply Chain	Australia	
2013	Lead Auditor and Technical Specialist for AGR West Africa Supply Chain – Namibia	Namibia, West Africa	
2013	Lead Auditor and Technical Specialist for AGR West Africa Supply Chain – Ghana, Burkina Faso and Mali Faso and I West Africa		
2013	Lead Auditor and Technical Specialist for AGR West Africa Supply Chain – Guinea	Guinea, West Africa	
2013	Lead Auditor and Technical Specialist for AGR West Africa Supply Chain – Senegal and Mali	Senegal and Mali, West Africa	
2013	Technical Specialist for AGR East Africa Supply Chain – Tanzania	Tanzania	
2013	Lead Auditor and Technical Specialist for Wesbank Transport Recertification Audit	Namibia	
2013	Lead Auditor and Technical Specialist for TTM Recertification Audit	Republic of Guinea	
2013	Lead Auditor and Technical Specialist for Hidden Valley Transport Certification Audit	Papua New Guinea	
2012	Lead Auditor and Technical Specialist for Orica's New Zealand Supply Chain (Amendment)	New Zealand	
2012	Lead Auditor and Technical Specialist for Orica's Papua New Guinea  Supply Chain Audit Amendment  Papua N		
2012	Lead Auditor and Technical Specialist for Newcrest's Lihir Gold Mine Transportation Supply Chain	Papua New Guinea	
2012	Lead Auditor and Technical Specialist for Pioneer Ocean Freight's Transport Re certification Audit	Thailand	
2011	Lead Auditor and Technical Specialist for PT Transcontinent's Indonesian Supply Chain	Indonesia	
2011	Lead Auditor and Technical Specialist for Toll Mining Services Papua New Guinea Supply Chain		
2011	Lead Auditor and Technical Specialist for PT Nusa Halmahera Minerals Gosowong Supply Chain		
2011	Lead Auditor and Technical Specialist for Orica's West Africa Supply Chain Audit	Côte d'Ivoire, Guinea, Senegal, Mauritania, Ghana	
2011	Lead Auditor and Technical Specialist for Orica's Papua New Guinea Supply Chain Audit	Papua New Guinea	
2011	Lead Auditor and Technical Specialist for Orica's East Africa Supply Chain Audit	Tanzania and Kenya	
2011	Lead Auditor and Technical Specialist for Orica's Asia Supply Chain Audit	Thailand	
2011	Lead Auditor and Technical Specialist for Orica's Latin America Supply Chain Audit	Peru, Argentina and Brazil, South America	
2011	Lead Auditor and Technical Specialist for Pioneer Ocean Freight's Transport Certification Audit	Bangkok, Thailand	
2011	Lead Auditor and Technical Specialist for AGR Ocean Freight Supply Chain	Global	
2011	Lead Auditor and Technical Specialist for Barbex Technical Services	Ghana, West Africa	
2010	Lead Auditor and Technical Specialist for Orica's New Zealand Supply Chain	New Zealand	
2010	Lead Auditor and Technical Specialist for Orica's Australian Supply Chain	Australia	
2010	Lead Auditor and Technical Specialist for AGR West Africa Supply Chain – Namibia	Namibia, West Afric	





Year	Type of Facility, Type of Audit Led	Country & State/Province	
2010	Lead Auditor and Technical Specialist for AGR West Africa Supply Chain – Ghana, Burkina Faso and Mali	Ghana, Burkina Faso and Mali, West Africa	
2010	Lead Auditor and Technical Specialist for AGR West Africa Supply Chain – Guinea	Guinea, West Africa	
2010	Lead Auditor and Technical Specialist for AGR West Africa Supply Chain – Senegal and Mali	Senegal and Mali, West Africa	
2010	Lead Auditor and Technical Specialist for Burkina Logistics Mining Services in Ghana.	Burkina Faso, West Africa	
2010	Lead Auditor and Technical Specialist for Allship Logistics in Ghana.	Ghana, West Africa	
2009	Lead Auditor and Technical Specialist for TTM in Guinea.	Guinea, West Africa	
2009	Lead Auditor and Technical Specialist for SDV in Senegal.	Senegal, West Africa	
2008	Lead Auditor for Freight Forwarders Tanzania's transportation activities.	Tanzania, East Africa	
2008	Lead Auditor for Freight Forwarders Kenya's transportation activities.	Tanzania and Kenya, East Africa	
2007	Lead Auditor for Barbex Technical Services transportation activities.	Ghana, West Africa	
	Transportation - International Cyanide Code Equivalent Non-Certificat	ion Audits	
2010	Lead Auditor and Technical Specialist for Orica Australia Limited's transportation activities.	Queensland, Australia	
2009	Lead Auditor and Technical Specialist for Orica Australia Limited's transportation activities.	Queensland, Australia	
2009	Lead Auditor and Technical Specialist for Orica Australia Limited's transportation activities.	Northern Territory, Australia	
2009	Lead Auditor and Technical Specialist for Orica Australia Limited's transportation activities.	New South Wales, Australia	
2009	Lead Auditor and Technical Specialist for CSBP Wesfarmers' transportation activities.	Namibia, Southern Africa	
2008	Lead Auditor for Orica Australia Limited's transportation activities.	Peru	
2008	Lead Auditor for Orica Australia Limited's transportation activities.	Argentina	
2008	Lead Auditor for Orica Australia Limited's transportation activities.	Thailand	
2008	Lead Auditor for Orica Australia Limited's transportation activities.	New Zealand	
2007	Lead Auditor for Orica Australia Limited's transportation activities.	Peru	
2007	Lead Auditor for Orica Australia Limited's transportation activities.	Ghana, West Africa	
2006	Lead Auditor for Orica Australia Limited's transportation activities.	Queensland, Australia	
2006	Lead Auditor for Orica Australia Limited's transportation activities.	Townsville, Australia	
2006	Lead Auditor for Orica Australia Limited's transportation activities.	Northern Territory, Australia	
2006	Lead Auditor for Orica Australia Limited's transportation activities.	New South Wales, Australia	
2006	Lead Auditor for Orica Australia Limited's transportation activities.	Tasmania, Australia	
2006	Lead Auditor for Orica Australia Limited's transportation activities.	Western Australia, Australia	
	Production - International Cyanide Code Certification Audits	3	
2017	Lead Auditor and Technical Specialist for Australian Gold Reagents' Production Facility	Western Australia, Australia	





Year	Type of Facility, Type of Audit Led	Country & State/Province	
2016	Lead Auditor and Technical Specialist for Allships Warehouse Facility.	Tarkwa, Ghana	
2014	Lead Auditor and Technical Specialist for Orica Australia Limited's production (transfer) facility.	Tarkwa, Ghana	
2011	Lead Auditor for Orica Australia Limited's production (transfer) facility.	Ventanilla, Peru	
2009	Lead Auditor for Orica Australia Limited's production facility.	Yarwun, Queensland, Australia	
2008	Lead Auditor for Orica Australia Limited's production (transfer) facility.	Ventanilla, Peru	
2010	Lead Auditor for Certification of Orica Australia Limited's production (transfer) facility.	Tarkwa, Ghana	
2006	Lead Auditor for Orica Australia Limited's production facility.	Yarwun, Queensland, Australia	
	Production - International Cyanide Code Equivalent Non-Certification	n Audits	
2010	Lead Auditor for Orica Australia Limited's production (transfer) facility.	Tarkwa, Ghana	
	Mining - International Cyanide Code Certification Audits		
2018	Lead Auditor for Newmonts Ahafo Gold Mine	Ghana	
2017	Lead Auditor for Goldfields South Deep Gold Mine	South Africa	
2016	Lead Auditor and Technical Specialist for Newcrest's Telfer Gold Mine	Western Australia, Australia	
2016	Lead Auditor and Technical Specialist for Goldfields St Ives Gold Mine	Western Australia, Australia	
2015	Lead Auditor and Technical Specialist for Newcrest's Gosowong Gold Mine	Halmahera, Indonesia	
2015	Lead Auditor and Technical Specialist for Goldfields Darlot Gold Mine	Western Australia, Australia	
2014	Technical Specialist for Goldfields Gold Granny Smith Gold Mine	Western Australia, Australia	
2013	Lead Auditor and Technical Specialist for New Gold's Peak Gold Mine	New South Wales, Australia	
2013	Lead Auditor and Technical Specialist for Morobe Mining Limited's Hidden Valley Gold Mine	Papua New Guinea	
2012	Lead Auditor and Technical Specialist for Newcrest's Telfer Gold Mine	Western Australia, Australia	
2011	Lead Auditor and Technical Specialist for Recertification of Minera Yanacocha S.R.L	Peru	
2011	Lead Auditor and Technical Specialist for Newcrest's Gosowong Gold Mine	Halmahera, Indonesia	
2010	Lead Auditor and Technical Specialist for Barrick Gold of Australia's Granny Smith Gold Mine.	Western Australia, Australia	
2009	Lead Auditor and Technical Specialist for Barrick Gold of Australia's Plutonic Gold Mine.	Western Australia, Australia	
2008	Lead Auditor and Technical Specialist for Newmont's Waihi Gold Mine.	New Zealand	
2008	Lead Auditor and Technical Specialist for Newmont's Tanami Gold Mine.	Western Australia, Australia	
2008	Lead Auditor and Technical Specialist for Newmont's Jundee Gold Mine in Western Australia, Australia.	Western Australia, Australia	





n Australia, a n Australia, a n Australia, a New Guinea n Australia, a ech, Bulgaria New Guinea	
a n Australia, a New Guinea n Australia, a ech, Bulgaria	
a New Guinea n Australia, a ech, Bulgaria New Guinea	
n Australia, a ech, Bulgaria New Guinea	
a ech, Bulgaria New Guinea	
New Guinea	
а	
а	
a	
Papua New Guinea	
d	
n Australia	
n Australia	
New Guinea	
uth Wales	
era, ia	
n Australia, a	
land, a	
Western Australia, Australia	
New Zealand	
Australia,	
Australia,	
Australia,	





Year	Type of Facility, Type of Audit Led	Country & State/Province	
2007	Lead Auditor and Technical Specialist for Barrick Gold of Australia's Lawlers Gold Mine.	Western Australia, Australia	
2007	Lead Auditor and Technical Specialist for Barrick Gold of Australia's Porter Gold Mine.	Papua New Guinea	
2007	Lead Auditor and Technical Specialist for Kalgoorlie Consolidated Gold Mines' Fimiston and Gidji facilities.	Western Australia, Australia	
2007	Pre-Operational Lead Auditor and Technical Specialist for Dundee Precious Mineral's processing facility.	Chelopech, Bulgaria	
	Due Diligence Auditing		
2013	Equator Principles Assessment of proposed Nickel Smelter	Indonesia	
2013	Lead Environmental Auditor for gold mine Due Diligence Audit.	Ghana	
2009	Lead Environmental Auditor for gold mine Due Diligence Audit.	South Australia, Australia	
2009	Lead Environmental Auditor for gold mine Due Diligence Audit.	Western Australia, Australia	
2006	Lead Environmental Auditor for copper mine Due Diligence Audit and review of Bankable Feasibility Study for Macquarie Bank.	Queensland Australia	
2006	Lead Environmental Auditor for mineral sands operation Due Diligence Audit.	Western Australia, Australia	
2005	Lead Environmental Auditor for manganese mine Due Diligence Audit for Commonwealth Bank.	Western Australia, Australia	
2005	Lead Environmental Auditor for fertiliser factory (5) Due Diligence/Compliance Audit in Western Australia, Australia.	Western Australia, Australia	
2004	Lead Environmental Auditor for gold mine Due Diligence Audit against Canadian Securities Act – National Instrument 43-101.	Western Australia, Australia	
	Operational Experience (In-house Auditing)		
2000- 2004	Gold Mines Operational Experience (In-house Auditing). Environmental Superintendent for Barrick Gold Tanzania. Conducted internal environmental auditing including compliance and system audits.	Tanzania, East Africa	
1998- 2000	Nickel Mine and Refining Facility Operational Experience (In-house Auditing).  Environmental Superintendent for Anaconda Nickel in Western Australia.  Conducted internal environmental auditing including compliance and system audits.		
1996- 1998	Gold Mine Operational Experience (In-house Auditing). On-site environmental auditing including compliance and system audits for operational gold mine. Environmental Coordinator for Gold Mines of Australia Reedy Gold Mine. Conducted internal environmental auditing including compliance and system audits.	Queensland, Australia	
1994- 1996	Queensland Department of Environment.  Environmental auditing incorporating emergency response and health and safety issues associated with manufacturing, maintenance, waste, chemical processing, construction, transportation and minor extractive industries.	Queensland, Australia	

# **Cyanide-Related Operations Experience**

Each auditor must have at least 3 years; at least one auditor must have at least 7 years experience.

Auditor Yrs. Relevant Position Titles Types of Operations
---





Ed Clerk	14	Principal, Principal EHS Consultant, Manager EHS Services	Since August 2004, I have provided over 20% of my environmental consulting time to the mining industry, transport industry and chemical manufacturing industry.
	6	Environmental Superintendent – Tanzania, Environmental Coordinator, Western Australia	Between 1996 to 1998 and 2000 to 2004, Mr Clerk has provided in-house environmental management and auditing services to gold mining companies in both Western Australia (Gold Mines of Australia) and Tanzania (Barrick Gold).
	2	Environmental Inspector	Between 1995 and 1996, approximately >20% of my time was involve in regulator activities for chemical facilities.
	2	Environmental Technician	Between 1993 and 1994, approximately 20% of consulting time was allocated to chemical facilities.

#### Statement of No Conflict

I certify that I have not audited any component of this facility for which I was responsible for design or development; nor have I within the past year been an employee of the facility, its parent company, or associated affiliates. Excluding audits, I have not derived more than 30% of my income within the past 5 years from the facility, its parent, or associated affiliates. I have not participated in more than two consecutive Cyanide Code audits of this facility. I have participated in at least 3 health, safety, and/or environmental audits in the past 7 years and am familiar with standard audit procedures as well as with the protocols developed by the International Cyanide Management Institute for implementation of the Code.

Signed	Name	Signature	Date
Lead Auditor and Technical Specialist*	Edward Clerk	Me.	23-8-18

Use additional pages if necessary

j:\env\2017 - environment\bwo - south deeps\1780477-001-r-rev0 auditor creds.docx

IAN BARRIE MURIE 16 Emerald Terrace West Perth Western Australia General Public Notary

23/08/2018.



<sup>\*</sup>The lead auditor's signature must be certified by notarisation or equivalent.

### ICMI CYANIDE CERTIFICATION AUDIT - AUDITOR CREDENTIALS

# INTERNATIONAL CYANIDE MANAGEMENT INSTITUTE

#### **Auditor Credentials Form**

Facility Audited: Gold Fields South Deep Gold Mine, South Africa

Date: 12 February 2018

#### Auditor and Technical Specialist Credentials:

Auditor: Marié Schlechter

Minimum Experience: - 7 years of experience with the type of operation being audited; and

- 3 environmental, safety and/or health audits, assessment, inspections or

reviews in 7 years prior to audit.

Yrs.	Relevant Position Titles	Types of Operations	
2018	ICMI Cyanide Code Recertification Audits: Technical Auditor	Gold Fields, South Deep Gold Mine, South Africa Newmont, Ahafo Gold Mine, Ghana	
2017	ICMI Cyanide Code Recertification Audits: Technical Auditor	Gold Fields, Damang Gold Mine, Ghana; Harmony Gold Mining Company, Target Gold Mine, South Africa; Harmony Gold Mining Company, No.1 Gold Plant, South Africa; Harmony Gold Mining Company, Kusasalethu Gold Mine, South Africa; Harmony Gold Mining Company, Doornkop Gold Mine, South Africa; and Harmony Gold Mining Company, Central Gold Mine, South Africa.	
2016	Cyanide Code Gap Audit, Technical Auditor	Newmont, Ahafo Gold Mine, Ghana	
2016	ICMI Cyanide Code Recertification Audits: Technical Auditor	Evander Gold Mine, South Africa	
2015	ICMI Cyanide Code Recertification Audits: Technical Auditor	AngloGold Ashanti Siguiri Gold Plant, Guinea AngloGold Ashanti Sadiola Gold Mine, Mali AngloGold Ashanti Yatela Gold Mine, Mali	
2014	ICMI Cyanide Code Recertification Audits: Technical Auditor	Goldfields South Deep Gold Mine, South Africa	
2013	ICMI Cyanide Code Recertification Audits: Technical Auditor	AngloGold Ashanti Kopanang Gold Plant, South Africa AngloGold Ashanti Noligwa Gold Plant, South Africa AngloGold Ashanti West Gold Plant, South Africa AngloGold Ashanti Savuka Gold Plant, South Africa AngloGold Ashanti Mponeng Gold Plant, South Africa	
2011 - present	Snr Environmental Scientist –	Marie has worked in the gold mining industry since 2000 and gained extensive experience in the management of the industry specific risks	

### ICMI CYANIDE CERTIFICATION AUDIT - AUDITOR CREDENTIALS

Yrs.	Relevant Position Titles	Types of Operations
	Golder Associates	associated with the processes and associate infrastructure on gold
2006 - 2011	Snr Environmental Coordinator – AngloGold Ashanti	mines and specifically the cyanidation facilities and associated aspects.

#### Statement of No Conflict

I certify that I have not audited any component of this facility for which I was responsible for design or development; nor have I within the past year been an employee of the facility, its parent company, or associated affiliates. Excluding audits, I have not derived more than 30% of my income within the past 5 years from the facility, its parent, or associated affiliates. I have not participated in more than two consecutive Cyanide Code audits of this facility. I have participated in at least 3 health, safety, and/or environmental audits in the past 7 years and am familiar with standard audit procedures as well as with the protocols developed by the International Cyanide Management Institute for implementation of the Code.

Signed	Name	Signature	Date
Gold Mine Technical Expert Auditor	Marié Schlechter	MSh=	15 August 2018

Tracy Skinner

Commissioner of Oaths

Ex-Officio Professional GISc Practitioner (PGP 1356)

Magwa Crescent West, Waterfall City

Midrand