Towards improved OHS Act compliance:

Cecil Lancaster
Elektrotegniese Aannemers Vereniging van SA (E C A)
OHS ACT:
Occupational Health and Safety Act, Act 85 of 1992

Wet op Beroepsveiligheid en Gesondheid, Wet 85 van 1992
OHS Act:

EXTREMELY ONEROUS!
Applicable to EVERYONE, also Utilities (Suppliers) & Govt (as legal persons) AND their employees acting on their behalf Impacts on all (Any person who/ No person) Very onerous! (No person may permit) Even for failing to comply, or permitting others to transgress Burden of proof of compliance upon accused Assumed guilty until proven contrary
<table>
<thead>
<tr>
<th>EMR vs EIR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Machinery</strong></td>
</tr>
<tr>
<td>Belongs to:</td>
</tr>
<tr>
<td>Utility (supplier)</td>
</tr>
<tr>
<td><strong>Scope:</strong></td>
</tr>
<tr>
<td>Generation to Point of Supply</td>
</tr>
<tr>
<td>(powerstation to meter)</td>
</tr>
<tr>
<td><strong>Responsibility:</strong></td>
</tr>
<tr>
<td>Utility (Engineer?)</td>
</tr>
</tbody>
</table>
EIR 2009: General

A Regulation incorporated into the OHSAct

Published in the Government Gazette of 6 March 2009, R242.

Came unto effect 1 May 2009

Applicable to ALL

As part of OHSAct

And equally onerous
Sertifikaat van nakoming (CoC)
Voorgeskryf in die OHSAct (EIR)

Vir Elektriese Installasies in eiendomme
(Including public/Govt property)

Ook so te sê dieselfde vir Elektriese
heining
en Gas installasies
Do you have a CoC?

At home?
Valid, up to date?
Rest is in transgression, May be prosecuted!
And at work?
All premises /parts under your jurisdiction?
Who is responsible?
Mayor, MM, Councillor, Engineer, Consultant, delegated person, Maintenance, YOU?
Utility properties involved:

Everything that contains electrical Installation

➢ Offices
➢ Town hall
➢ Stores
➢ Workshops
➢ Substations (excluding machinery)
➢ Powerstations (excluding machinery)
➢ Pumpstations
➢ Streetligting
➢ Traffic control (excluding computer controls)
1 Definitions: Electrical Installation

"electrical installation" means any machinery, in or on any premises, used for the transmission of electricity from a point of control to a point of consumption anywhere on the premises, including any article forming part of such an electrical installation irrespective of whether or not it is part of the electrical circuit, but excluding —

Defining the extent covered by the regulations, and requiring a CoC;
The Electrical Installation, also known as Wiring (or even fixed wiring) Between the MAIN SWITCH (point of control) and the supply terminals of appliances (point of consumption) or socket outlets.
EXCLUDES Generating, Transmission, Distribution, metering and such utility equipment covered by EMR
2. Responsibility for Electrical Installations:

(1) Subject to ...(delegation per) (3) below ....

The **user** or **lessee** of an Electrical Installation shall be **Responsible** for the **Safety**, **Safe use and Maintenance** of the Electrical Installation he uses or leases.

(3) … unless transferred by written undertaking
5 Construction:

(1) No person shall permit or require installation other than safety standard.

(2) No person may use components unless approved.

(4) A registered person shall exercise general control of all electrical work, except single phase installation.

No person shall permit such work without such control.

(5) Where > 1000V, Design approved.

(6) Where 5 or more users from new supply, Competent person to Ensure compliance (Complexes).
6   Electrical Contractor:

No person may do Electrical work unless registered

(2) Any person who intends to do work as contractor
   Shall register
       Annually with Department of Labour

Employer is responsible to confirm registration of contractors he employs
How can Munics be compliant?

Be sure to use only a contractor registered with the Department of Labour as Electrical Contractor.

Onus is upon the Contractor to prove registration, and upon employer to ensure registration and validity.

Confirm with the provincial offices of DoL ECA Office has copies of information of members.
ELEKTRIESE KONTRAKTEURS

P.O. Box 0850

Attention: Mr. 

Dear Sir,

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993
ELECTRICAL INSTALLATION REGULATION REGISTRATION 6(4): REGISTRATION OF ELECTRICAL CONTRACTOR

Your application dated 14th February 2013 for registration as an electrical contractor refers.

You are hereby registered as an electrical contractor in terms of regulation 6(4) of the Electrical Installation Regulations for the period from 14th February 2013 to 14th February 2014 with registration number GN 0001 in the following category:

Any electrical installation

The following registered person(s) has been placed on the database of the department under the above mentioned electrical contractor:

<table>
<thead>
<tr>
<th>Name</th>
<th>Registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MIE 0600</td>
</tr>
</tbody>
</table>
7 Certificate of Compliance

1) Every user or lessor shall have a valid CoC for every such installation. And (4) shall obtain an Additional Certificate for additions and alterations, or a complete new one.

2) Show to inspector on request.

3) Exemptions: Not Pre (1 March) 94 unless:
   - Addition or alteration
   - Change of ownership after 1 Jan 94

4) For changes and alteration: Additional CoC for that.

5) User shall not allow transfer if CoC is older than two years, unless 10(4).

6) Supplier may inspect at any reasonable time.

7) If inspector detects fault or defect he may:
   - Require new CoC
   - If Immediate danger:
     HE SHALL
   Disconnect that circuit & report to Chief Inspector.
6 Commencement of, and permission to connect:

(1) **No person shall commence with:**
    
a new installation, or
    
work going to require an increased supply,

Unless supplier is notified per Annex 4

(2) **No person shall connect or allow connection for**

Completed or partially completed installation unless it has been inspected & tested by a **Registered person** and **CoC has been issued**

except, re-connection or tenant change without ownership change.
9 Issuing of CoC:

(1) ONLY a **REGISTERED PERSON** may, issue a CoC

(3) If **any** fault or defect is detected in any part of the installation he shall **refuse** to issue CoC.

If said defect constitutes immediate **danger**, he shall **disconnect** said circuit & report to Chief inspector

(4) Any person who does electrical installation work shall ensure that a valid CoC is issued for that work

(5) No person may amend a CoC
Electric Fence

Around substations etc.

CoC?
Domestic HV?

MV installations

1-22kV < 3MVA

(Installation vs Machinery)
SOUTH AFRICAN NATIONAL STANDARD

The wiring of premises

Part 2: Medium-voltage installations above 1 kV a.c. not exceeding 22 kV a.c. and up to and including 3 000 kVA installed capacity
CoC

Use same document as House wiring
Add supplementary test report
From the EIR 2009:
5 (5): The design has to be approved

(5) Where the voltage exceeds 1 kV, a person deemed competent in terms of paragraphs (b), (c) or (d) of the definition of a competent person in regulation 1 of the General Machinery Regulations, 1988, or a person registered in a professional category in terms of the Engineering Profession Act, 2000, shall approve the design of that part of an electrical installation.
Annex B
(normative)

MV Installation Safety Report

B.1 Safety report issued by the contractor and the professionally registered person

B.1.1 Declaration

I (FULL NAME IN BLOCK LETTERS), .............................................................., the appointed Registered Person, Professional Registration Number with the Engineering Council of South Africa, No. ........................................, Physical address: .................................................................

.................................................................

Telephone No.: ..................................................Cellular No.: ................................................................., declare that I have approved the design of the MV installation as indicated under item B.1.2 in accordance with SANS 10142-2 and that the installation is safe for operation as intended.

Amgt 1

SIGNATURE: .................................................................

DATE: .................................................................
I (FULL NAME IN BLOCK LETTERS), ..............................................................,
Representative of the Contractor (Contractor’s name): ....................................................
Business Registration: ....................................................................................................
Registration Number as an Electrical Contractor (Electrical Installation Regulations): ......,
Telephone No.: .................................., Cellular No.: ..................................................
declare that the installation was installed in accordance with SANS 10142-2 and that I have inspected and arranged for the performance and acceptance testing of the installation as indicated under items B.2 to B.3 below and that the installation is safe for operation as intended.

Amendment 1

SIGNATURE: ..............................................................

DATE: ..............................................................
Test Report: Technical Part
(Several pages)

B.2 CONTRACTOR — Procurement, installation, testing and commissioning

Mark each question with "Y", "N" or "N/A" and initial in the appropriate space alongside. If "N" justify on a separate page.

B.2.1 Equipment of the new, extended or reconstructed installation

<table>
<thead>
<tr>
<th>Clause</th>
<th>Y/N/N/A</th>
<th>Initial</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.3</td>
<td></td>
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<td>9.3</td>
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<tr>
<td>4.3</td>
<td></td>
<td></td>
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<tr>
<td>4.3</td>
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</table>
About ECA (SA)

Electrical Contractors’ Association of SA
• Werkgewers Organisasie
• Verteenwoordig Elektrisiëns
  (Elektrotegniese Aannemers)
• Organisasie nie vir winsbejag.
• Sedert 1950 (68 jaar oud), 50+ voltydse werknemers
• 3500+ lede
• Meer as 50% van voltydse kontrakteurs landswyd
• 70+ % van werknemers in die nywerheid
• Sewe kantore in ses streke, 23 takke.
• Help met Dept v Arbeid Registrasie en hou rekord
ECA Meeting, Cape Town ---1923
Customer Service Technical Advisors

Previously Highveld Inspectors
All inspectors from Klerksdorp to Messina, Mafeking to Komatipoort used to attend
Now mostly Gauteng Munics only
Meets quarterly
Pushing for re-instalment of inspectorates
ECA active therein

Chairman: Etienne Oosthuizen:
Secretary: Christo Duvenhage
Past Chair: Robert Spark,

Next meeting: 7 November,

Everyone invited or send your “inspectors”
How can the ECA help?

All ECA members are compliant and registered, it is non-negotiable prerequisite requirements for membership of the ECA.

Moreover, ECA members are proud to be:

- Duly registered
- Competent
- Accountable
- Dependable
- Reliable

Call your nearest ECA office for references
Self Service: ecasa.co.za

News

DID YOU MISS THE ECA(SA)'S FIRST FREE WEBINAR – THE PITFALLS OF TENDERING? LISTEN TO IT HERE!

Latest News

CONTRACTUAL REPORT PRESENTED TO THE ECA(SA) NATIONAL EXECUTIVE COMMITTEE

PROTECT YOURSELF AGAINST RISK – DEFECTIVE WORKMANSHIP

Free solar panel training in Gauteng

Popular Post

CONTRACTUAL REPORT PRESENTED TO THE ECA(SA) NATIONAL EXECUTIVE COMMITTEE

Recent Post

The ECA(SA) Electronic COC

Collective Amending Agreement terms, conditions of employment

Free webinar – The Pitfalls of T
Search on City/Town (next town)

ECA(SA) Member Listings

**ROEOF ELECTRICAL CONTRACTORS**

171 Davidson Iaan, Vaalwater, Vaalwater, 0530

**Contact Information:**
- Phone: 0147553571
- Fax: 0147553571
- Mobile: 0827751519
- Email: Rmerwe@Absamail.Co.Za

**Contact Person:**
- Name: Roelof
- Surname: Van Der Merwe Re

**J BENADE**

Plaas Waterval, Vaalwater, Polokwane, 5300

**Contact Information:**
- Phone: 0147553864
- Fax: 0147553864
- Mobile: 27837859587
- Email: -

**Contact Person:**
- Name: Johannes
- Surname: Benade J G

**WILLIE VAN ROOYEN**

Plaas Servaas, Vaalwater, Vaalwater, 5300

Contact Information:
- Phone: 0147553864
- Fax: 0147553864
- Mobile: 27837859587
- Email: -

Contact Person:
- Name: Johannes
- Surname: Benade J G
FINALLY:
Remember that you as utilities remains accountable as both supplier and as user.
Thank You.
Questions?