

Road Pavement Forum
May 2016

South Africa

COTO

Committee of Transport
Officials

Materials Tester Qualifications and Technical Career Path

Sean Strydom



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Materials Tester to Materials Technician

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Materials

Tester Qualification

- **Quality Committee for Trades & Occupations (QCTO)**
- **SABITA → Development Quality Partner (DQP)**
- **NLA-SA → Assessment Quality Partner (AQP)**

Materials Tester Qualification

**Occupational Certificate:
Civil Engineering Technician
(Civil Engineering Materials Tester)**

NQF level 4

Materials Tester Qualification

**Occupational Certificate:
Civil Engineering Technician
(Civil Engineering Materials Tester)**

NQF level 4

Qualification Details

- **72 Credits for Knowledge Modules**
- **123 Credits for Practical Modules**
- **165 Credits for Workplace Experience Modules**

- **360 Credits in Total**

7 Part Qualifications

- **Aggregates Tester**
- **Soils, Gravel And Crushed Stone Base Materials Tester**
- **Bituminous Binders Tester**
- **Asphalt Tester**
- **Concrete Tester**
- **Mining and Quarrying Aggregates Tester**
- **Concrete Tester (Concrete Manufacturing)**

Evaluation

- **Formative Assessment**
 - **Knowledge Modules**
 - **Practical Modules**
 - **Work Experience Modules**

Evaluation

- **Formative Assessment**
 - **Knowledge Modules**
 - **Practical Modules**
 - **Work Experience Modules**
- **Summative Assessment**

Evaluation

- **Registration of Assessors**
 - **Min 5 years as Tech Signatory, or**
 - **Tech Assessor with SANAS, or**
 - **ECSA Pr registration with 5 years lab experience**

Evaluation

- **Registration of Assessors**
 - **Min 5 years as Tech Signatory or Tech Assessor with SANAS, or ECSA or registration with 5 years lab experience**
- WHO WILL COME FORWARD FROM RPF RANKS?**

AQP progress

- **Framework:**
 - **Who,**
 - **Where,**
 - **When**
 - **Cost for evaluation**

AQP progress

- **Timeframes:**
 - **June 2015 – Submit to QCTO,**
 - **December 2015 – Start accrediting trainers,**
 - **June 2016 – Start RPL of candidates**
 - **December 2016 – Start full evaluations**
 - **December 2017 – Full implementation**

AQP progress

- **Timeframes:**
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AQP progress

- **Timeframes:**
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 - **June 2019 – Full implementation**



**New Engineering
Qualifications and the where
are we going to get *Materials
Technicians* in the future?**

New Engineering Qualifications

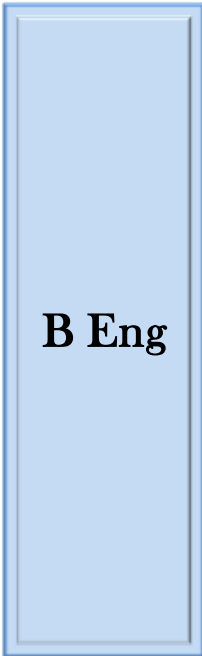
NQF Level 10



NQF Level 9



NQF Level 8



NQF Level 7



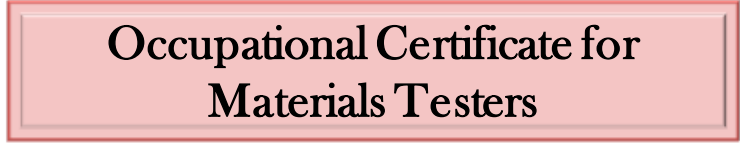
NQF Level 6



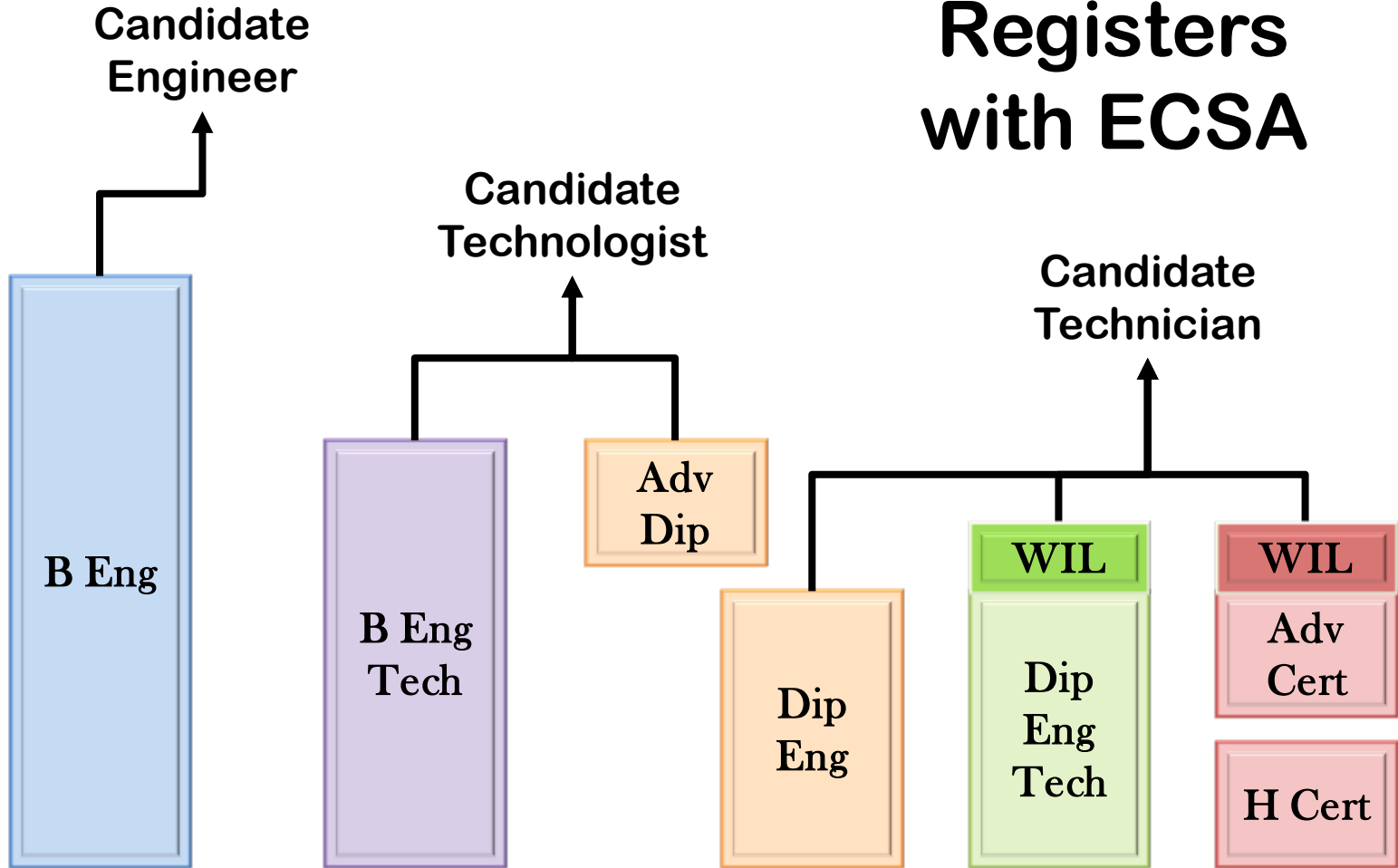
NQF Level 5



NQF Level 4



Who Registers with ECSA



Materials Testers to Materials Technicians

~~NQF Level 10~~

~~PhD~~

~~NQF Level 9~~

~~M Eng~~

~~NQF Level 8~~

~~B Eng Tech Hons~~

~~NQF Level 7~~

~~B Eng~~

~~B Eng Tech~~

~~Adv Dip~~

NQF Level 6

B Eng

B Eng Tech

Dip Eng

Dip Eng Tech

Adv Cert

NQF Level 5

B Eng

B Eng Tech

Dip Eng

Dip Eng Tech

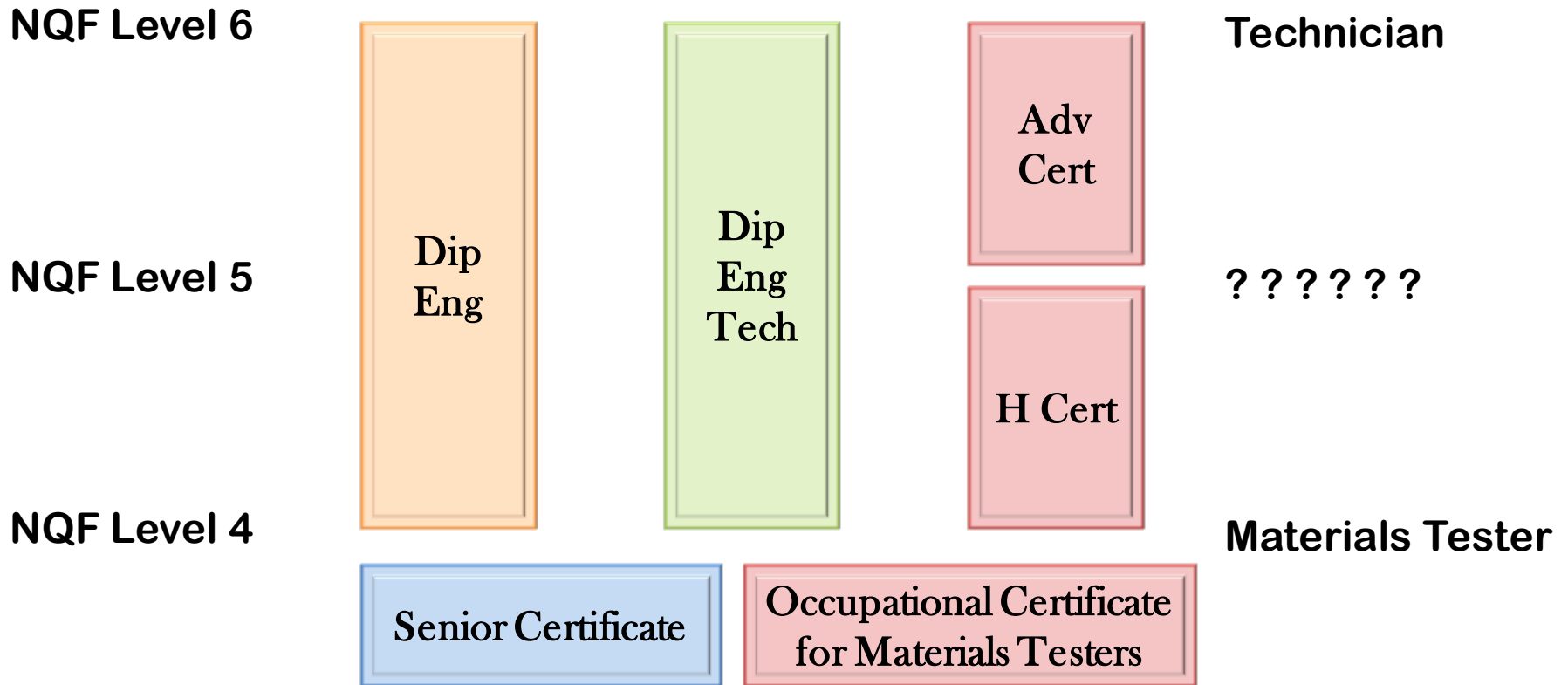
H Cert

NQF Level 4

Senior Certificate

Occupational Certificate for Materials Testers

Materials Testers to Materials Technicians (and something in between)



Materials Testers to Materials Technicians (and something in between)

NQF Level 6



NQF Level 5

Dip
Eng

Dip
Eng
Tech

Adv
Cert

Technician



??????

H Cert

NQF Level 4

Materials Tester

Senior Certificate

Occupational Certificate
for Materials Testers

Recognition of Materials Testers, Technicians and *Something in Between*

- **NQF 4 – Certified Materials Testers**
- ***NQF 5 – Registered Laboratory Manager***
- **NQF 6 – Professional Engineering Technician**

Recognition of Materials Testers, Technicians and *Something in Between*



- **Certified Materials Testers**



- ***Registered Laboratory Manager***



- **Professional Engineering Technician**

ROAD AHEAD

