Road Pavement Forum May 2017



Materials Tester to Materials Technicians: Career Path Development



Sean Strydom

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 13 Knowledge Modules
- 95 Credits for 20 Practical Modules
- 175 Credits for 9 Workplace Experience Modules
- 342 Credits in Total

5 Part Qualifications

- Aggregates Tester
- Soils, Gravel And Crushed Stone Base Materials Tester
- Bituminous Binders Tester
- Asphalt Tester
- Concrete Tester

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
 - Qualified Civil Materials Tester
 - Min 5 years as Tech Signatory, or
 - Tech Assessor with SANAS, or
 - ECSA Pr registration with 5 years lab experience

AQP progress

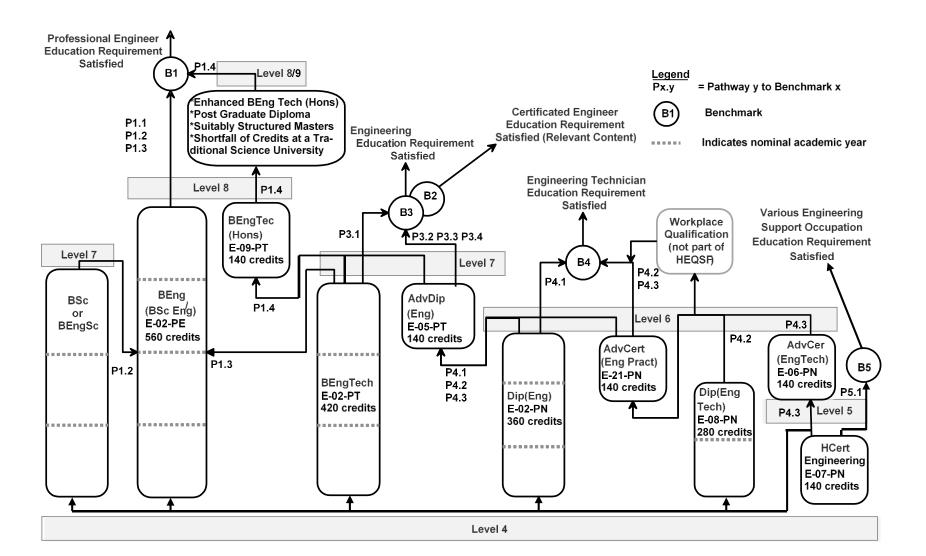
- Framework:
 - Who,
 - Where,
 - When
 - Cost for evaluation

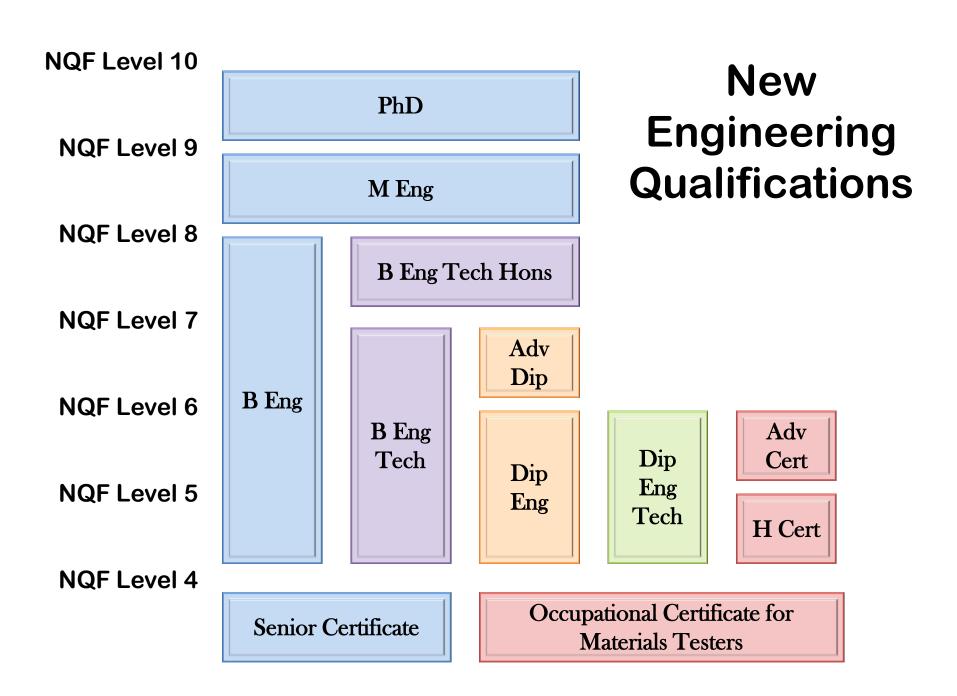
AQP progress

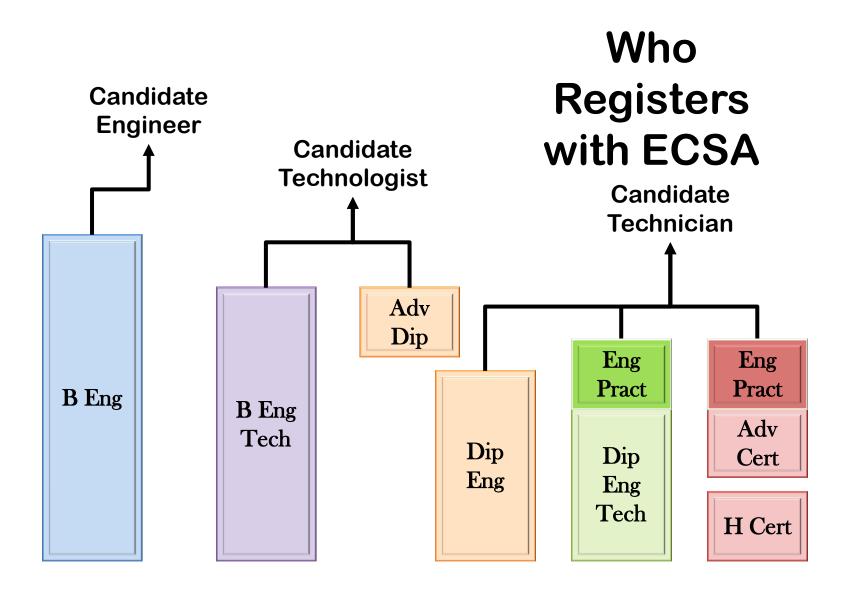
- Timeframes:
 - June 2015 Submit to QCTO,
 - June 2017 Start accrediting trainers,
 - December 2017 Start RPL of candidates
 - June 2018 Start full evaluations
 - June 2019 Full implementation



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















NQF Level 6

B

ng

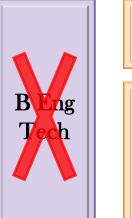
NQF Level 5

NQF Level 4













Dip Eng Tech Adv Cert

Materials

Testers

to

Materials

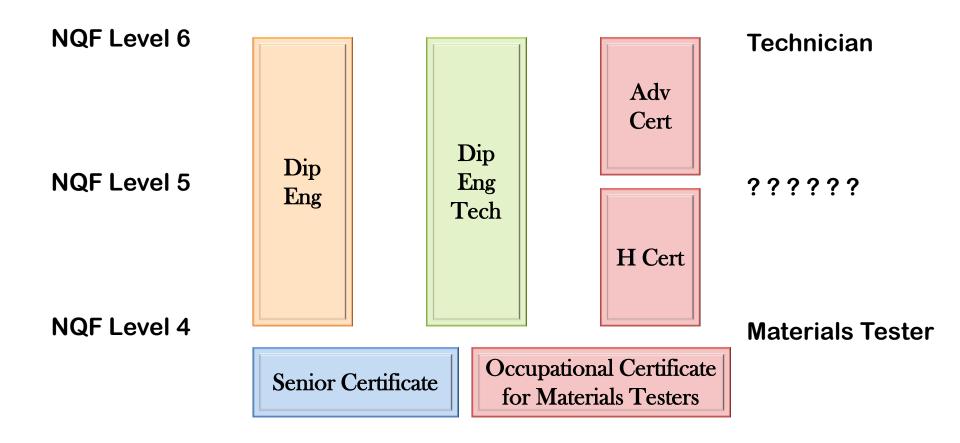
Technicians

H Cert

Senior Certificate

Occupational Certificate for Materials Testers

Materials Testers to Materials Technicians (and something in between)



- Higher Certificate in Engineering in Construction Materials
- Advanced Certificate in Engineering in Materials Technology
- Diploma in Engineering Technology in Construction Materials Technology

- Higher Certificate in Engineering in Construction Materials
- Exit level NQF 5
- One year full time studies
- 140 credits

 Advanced Certificate in Engineering in Materials Technology

- Exit level NQF 6
- One year full time studies
- 140 Credits

- Diploma in Engineering Technology in Construction Materials Technology
- Exit level NQF 6
- Two years full time studies
- 280 Credits

- Advanced Certificate in Engineering Practice
- Exit level NQF 6
- One year full time studies
- 140 Credits

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

 NQF 4 – Qualified Materials Testers

 NQF 5 – Registered Civil Laboratory Technical Controllers

 NQF 6 – Professional Engineering Technicians

Recognition of Materials Testers, Technicians and Something in Between



Certified Materials Testers



• Registered Civil Laboratory
Technical Controllers



Professional Engineering Technician

