



Career Development Practitioners Capacitation Workshop

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EWSETA Profile



- 21 SETAs established in terms of Section 9 of the Skills Development Act, 97 of 1998
- Report to the Minister of the Department of Higher Education, Science and Innovation
- Our mandate is to anticipate, build and manage the skills development and training needs of the energy and water services sectors. To do this, we:
 - ✓ Register, establish and promote learning programmes within the context of the National Skills Development Plan (NSDP) 2030
 - ✓ Approve Workplace Skills Plans (WSPs) and Annual Training Reports (ATRs)
 - ✓ Disburse mandatory grants to levy-paying employers and discretionary grants to employers, skills development providers, public education and training institutions, learners, NGO's, CBO's, Cooperatives and worker initiated programmes

Vision: Create a Sustainable Tomorrow Today, Through Skills



Our Sectors

ENERGY



Electricity



Nuclear
Energy



Sustainable
Energy



Oil & Gas

The different types of **renewable** energy



Solar Energy



Wind Energy



Bio-fuels
in liquid form



Alternative Energy
(Hydro Power &
Biomass)



Wave Power



Geothermal Activity

WATER



Collection,
Purification &
Distribution

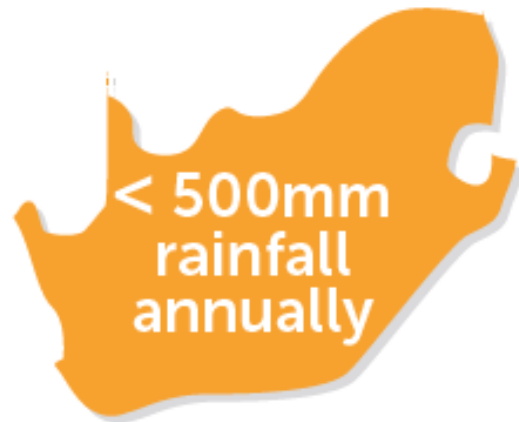


Refuse &
Sanitation
Services

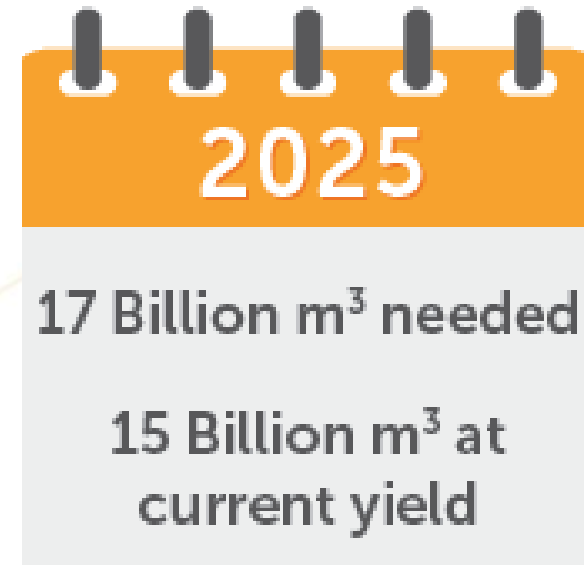
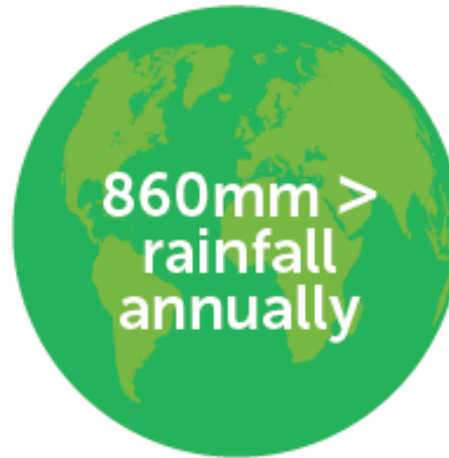


Waste &
Sewerage
Services

SA's Water Sector: An Overview



VS



Uneven Rainfall

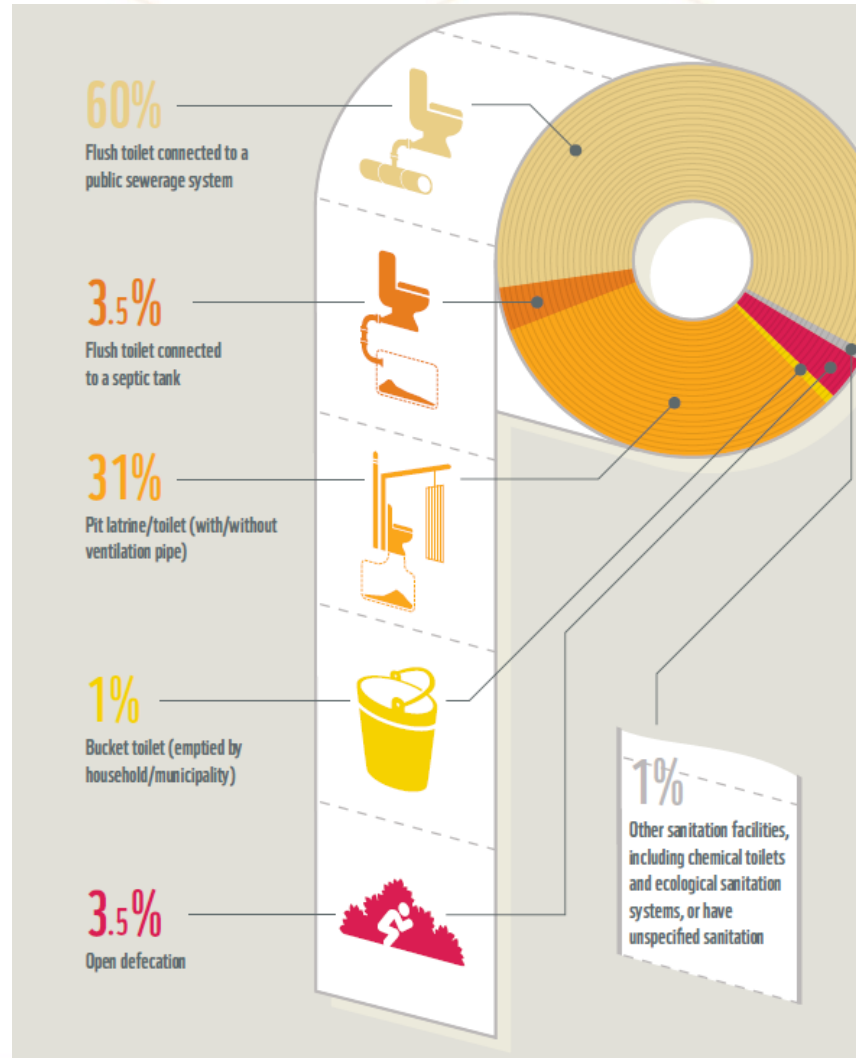
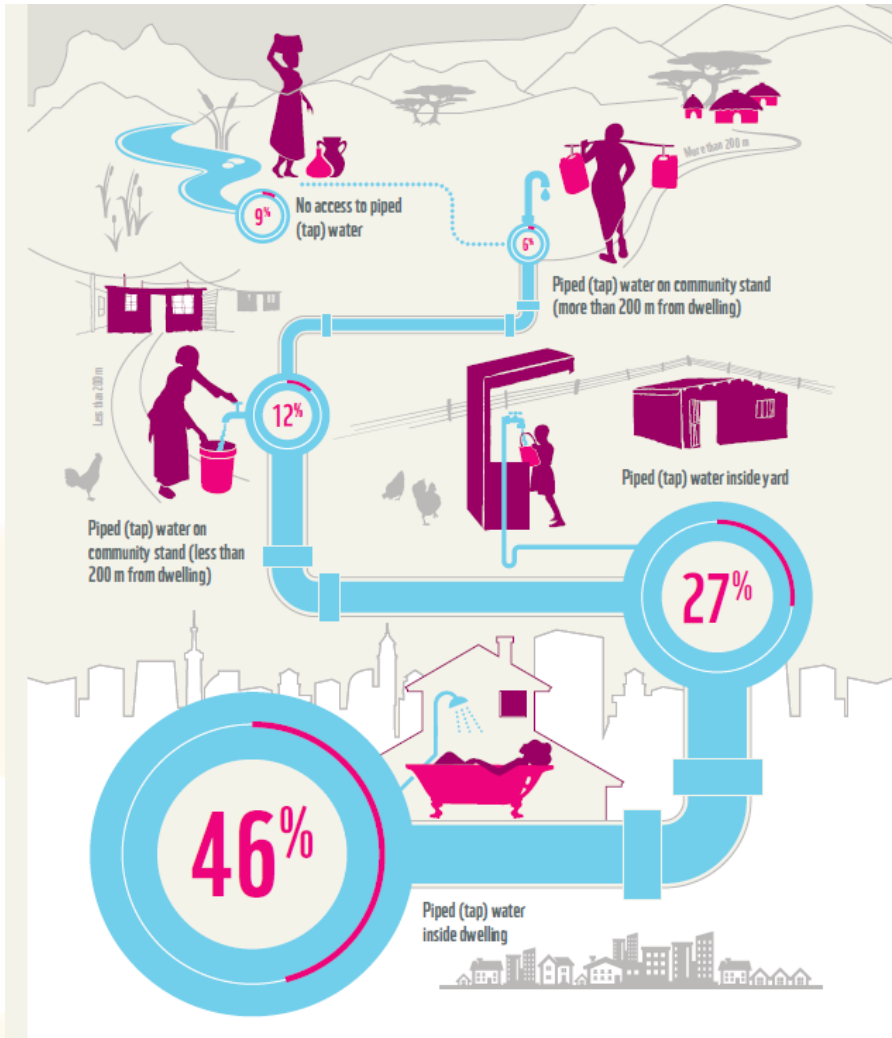


Droughts



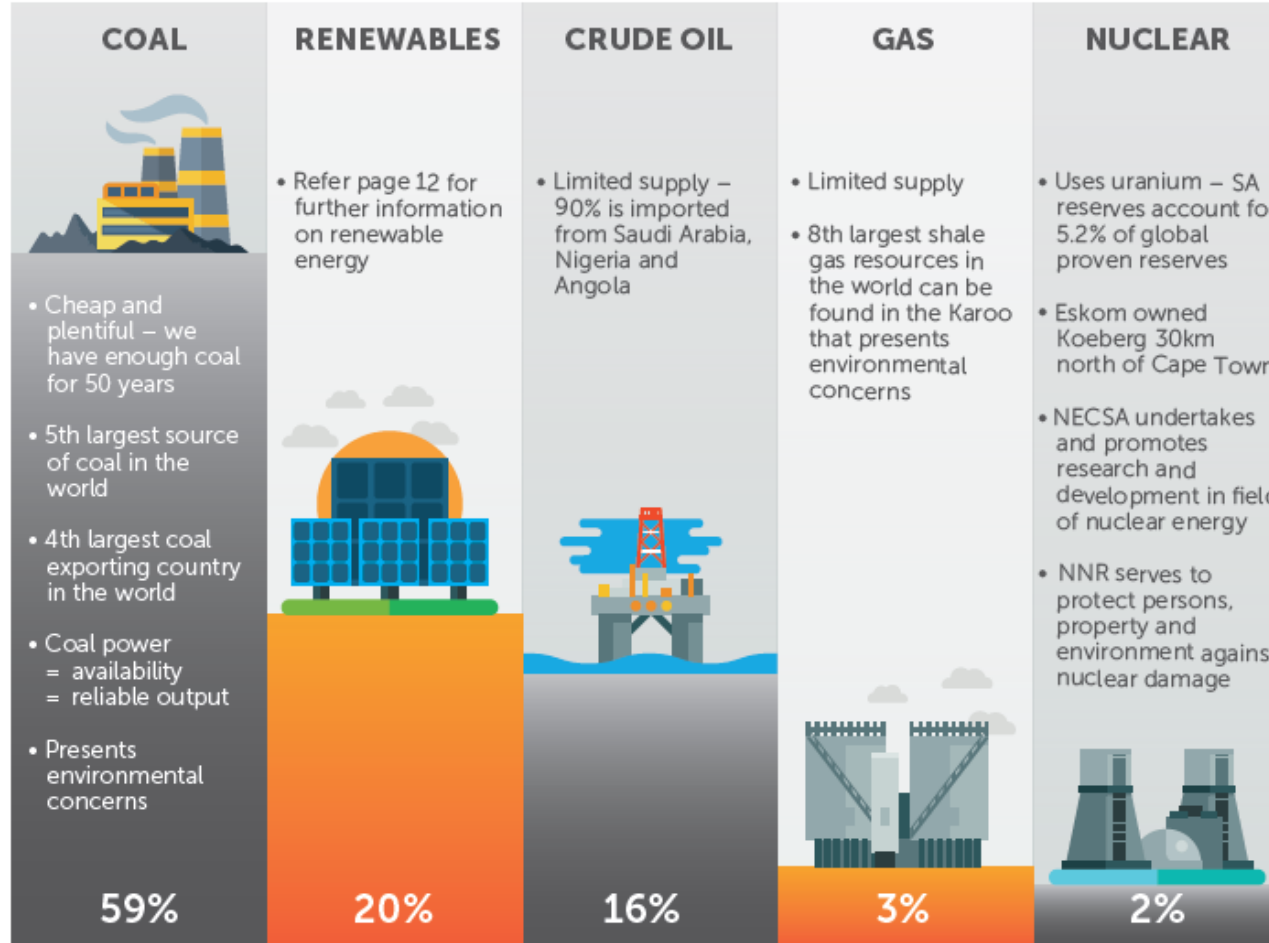
Floods

SA's Water Sector: An Overview




SA's Energy Sector: An Overview

Energy supply in SA



HUGE Growth Potential



- Reduction of Carbon Emissions
- REIPPP
- The role of renewable energy in DoE energy mix
- Rooftop PV Market

REIPPP: Renewable Energy Independent Power Producer Procurement (REIPPP) Programme

Factors Impacting Skills Development



- Aging workforce 17% over 55 (2019)
- Geographical focus
 - Mpumalanga – coal fired power
 - N Cape – solar
 - E Cape – wind
- 3.1 million young people (15 – 24) are excluded from mainstream economic activity (of this figure 46.3% have not completed secondary education)
- Uptake of and success in STEM subjects remains a challenge
- SMMEs/entrepreneurship are a focus in the country
- Employers/partnerships in the sector are an important success factor

The Gender Connection

	2016		2017		2018		2019	
	♂	♀	♂	♀	♂	♀	♂	♀
Energy	82%	18%	74%	26%	69%	31%	62%	38%
Water	74%	26%	67%	33%	71%	29%	62%	38%



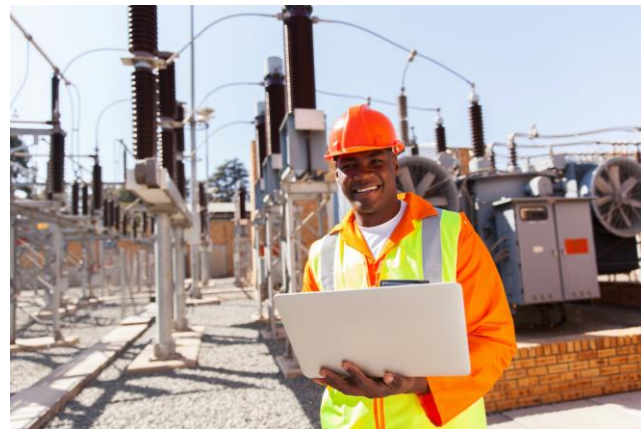
34%



66%

Change Drivers

- 4IR
- Water scarcity
- Desalination
- Water and sanitation standards support
- Innovation in water and sanitation programmes
- Renewable Energy
- Infrastructure Projects



51 STRATEGIC INTEGRATED PROJECTS (SIPS)

TRANSPORT	WATER & SANITATION	HUMAN SETTLEMENT	AGRICULTURE & AGRO PROCESSING	DIGITAL	ENERGY
15	11	18	2	1	3
R47BN	R106BN	R138BN	R7 BN	R4 BN	R58BN
> 50 000	> 25 000	> 190 000	> 4 000	> 700	> 6 000

Hard To Fill Vacancies (HTFVs)

- Electrician
- Mechanical Fitter
- Electrical Engineer
- Electronics Engineering Technologist
- Civil Engineer
- Water Process Controller
- Electrical Engineering Technologist
- Electronics Engineer
- Industrial Engineering Technician
- Instrument Technician
- Millwright
- Civil Engineering Technician
- Civil Engineering Technologist
- Special Class Electrician
- Environmental Engineer

← **As per WSPs and ATRs submitted in 2019**

Other (Based on Research)

- Solar Photovoltaic
- Service Technician
- Geophysicist
- Hydrologist
- Hydro Geologist

?

- Lack of experience
- Lack of relevant qualification
- New/emerging jobs/occupations for sectors

EWSETA Learning Programmes: Learnerships



- Learnerships lead to an NQF Qualification related to an occupation
- Learners are able to get a qualification whilst working full time
- Learners receive an EWSETA certificate to show competency level
- Learners do not pay for the learnership and the unemployed are given an allowance to cover their transport and food during training



EWSETA Registered Energy Learnerships



NQF Level	Title / Qualification	SAQA ID	Learnership
Level 2	FET: Measurement Control and Instrumentation	74530	1. NC in Measurement Control and Instrumentation.
Level 3	FET: Measurement Control and Instrumentation	74532	1. NC in Measurement Control and Instrumentation.
Level 4	FET: Measurement Control and Instrumentation	74531	1. NC in Measurement Control and Instrumentation.
Level 5	FET: Measurement Control and Instrumentation	49746	In process of being developed
Level 4	FET: Power Plant Operation (Nuclear, Fossil and Hydro)	61569	1. NC in Nuclear Power Plant Operation. 2. NC in Fossil Power Plant Operation 3. NC in Hydro Power Plant and Operation.
Level 5	FET: Power Plant Operation (Nuclear, Fossil and Hydro)	61570	1. NC in Nuclear Power Plant Process Control Operations
Level 1	GETC: General Education and Training in Basic Technical Practice	49753	GETC in Basic Technical Practice (Energy)
Level 4	FET: Electrical Network Control	48978	NC: in Electrical Network Control
Level 4	FET: Electrical Network Control on Gas Turbine Plants	48978	NC: in Electrical Network Control on Gas Turbine Plants
Level 5	FET: Electrical Network Power Dispatch Control	57693	National Diploma in Electrical Network Power Dispatch Control
Level 3	NC: Radiation Monitoring	49596	NC: Radiation Monitoring
Level 4	FETC: Radiation Protection	50329	FETC: Radiation Protection
Level 5	NC: Radiation Protection	57631	NC: Radiation Protection



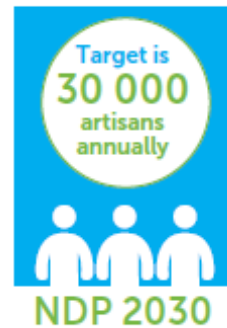
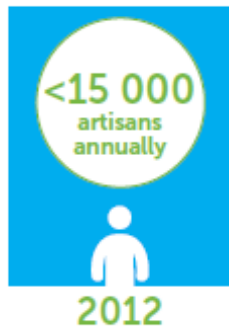
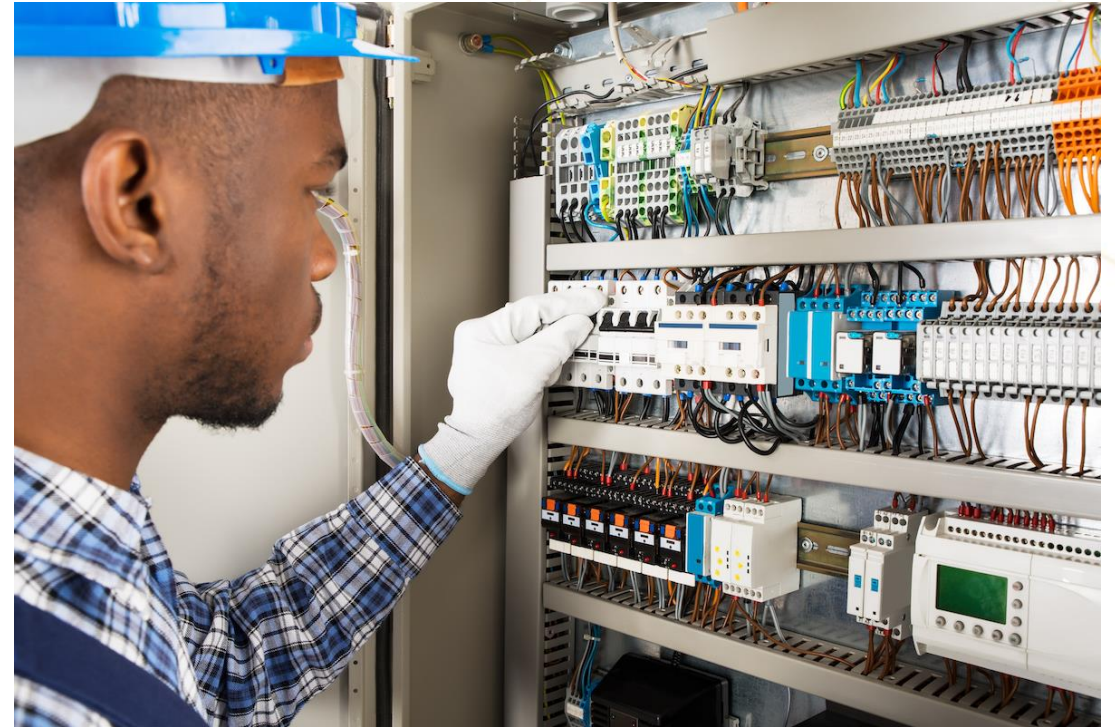
EWSETA Registered Water Learnerships

NQF Level	Title / Qualification	SAQA ID	Learnerships
Level 2	FET: Water and Waste Water Reticulation	60169	1. NC in Water Reticulation. 2. NC in Waste Water Reticulation.
Level 3	FET: Water and Waste Water Reticulation	60155	1. NC in Water Reticulation. 2. NC in Waste Water Reticulation.
Level 4	FET: Water and Waste Water Reticulation	60189	1. NC in Water Reticulation. 2. NC in Waste Water Reticulation.
Level 2	FET: Water and Waste Treatment Operation	58951	1. NC in Water Treatment Operation 2. NC in Waste Water Treatment Operation.
Level 3	FET: Water and Waste Water Treatment Operation	60190	1. NC in Water Treatment Operation 2. NC in Waste Water Treatment Operation.
Level 4	FET: Water and Waste Water Treatment Operation	61709	1. NC in Water Treatment Process Control Supervision 2. NC in Water Treatment Process Control Supervision
Level 2	FET: Community Water, Health, Hygiene and Sanitation Promotion	61689	1. NC in Community Water, Health, Hygiene and Sanitation Promotion (General) 2. NC in Community Water, Health, Hygiene and Sanitation Promotion (Sanitation Builder)
Level 3	FET: Community Water, Health, Hygiene and Sanitation Monitoring	64589	1. NC in Community Water, Health, Hygiene and Sanitation Monitoring (Sanitation Builder) 2. NC in Community Water, Health, Hygiene and Sanitation Monitoring (General) 3. NC in Community Water, Health, Hygiene and Sanitation Monitoring (SMME)
Level 4	FET: Community Water, Health, Hygiene and Sanitation Facilitation	61669	1. NC in Community Water, Health, Hygiene and Sanitation Facilitation (Operation and Maintenance) 2. NC in Community Water, Health, Hygiene and Sanitation Facilitation (Educator) 3. NC in Community Water, Health, Hygiene and Sanitation Facilitation 4. NC in Community Water, Health, Hygiene and Sanitation Facilitation (General)
Level 1	GETC: General Education and Training Certificate in Water Services	48495	GETC In Water Services
Level 2	NC: Industrial Water Treatment Support Systems Operations	77163	NC in Industrial Water Treatment Support System Operations



Artisanship

- EWSETA assists learners to enter the technical training system through apprenticeships that are job-oriented, specifically relating to a trade
- After passing a trade test the learner/employee is recognised as an artisan
- Apprenticeships are high on the Government's agenda and receives favourable support
- There is market demand for Artisans



Route to Artisanship

01

CAREER MANAGEMENT

School pupils from Grade 7 – 12 will be encouraged to consider career options in technical and vocational programmes that would lead to becoming a qualified artisan.

02

FUNDAMENTAL AND VOCATIONAL THEORY

This step relates to the fundamental vocational engineering theory that is taught primarily at TVET colleges and QCTO Accredited Skills Development Provider that lays the foundation for anyone wanting to progress into an engineering/artisan career.

03

LEARNER PROGRAMME REGISTRATION AND FUNDING

The SETA facilitates and registers an agreement signed by the learner, the employer who is hosting the learner and a TVET college or skills development provider.

04

OCCUPATIONAL KNOWLEDGE AND PRACTICAL TRAINING

During this step the Apprentice enters an accredited Artisan training centre/ TVET College to learn the practical component of the programme.

05

WORKPLACE TRAINING

During this step, learning from steps two and four is applied in the workplace.

06

TRADE TEST

The Apprentice is required to take a trade test conducted at a centre recognised by NAMB and accredited by the QCTO.

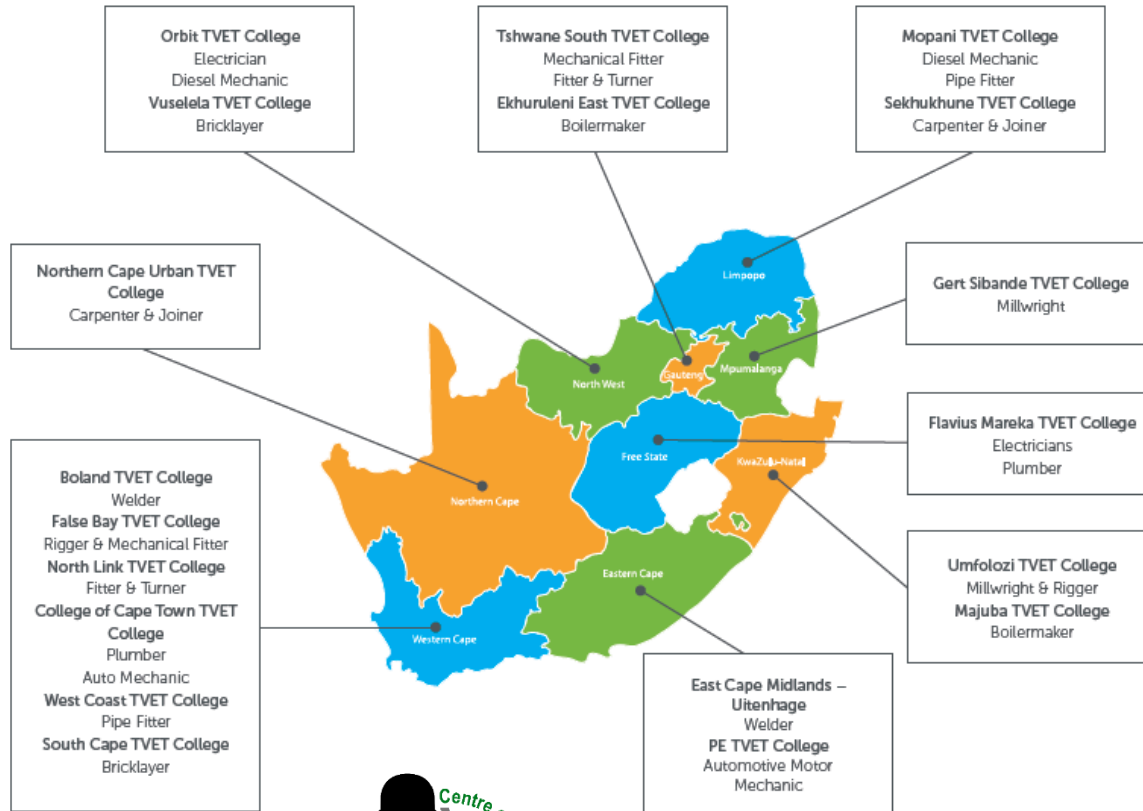
07

FINALISATION

The finalisation of the process, the quality assurance and certification of the Apprentice.



Centres of Specialisation



The 13 Trades

- Bricklayer
- Electrician
- Millwright
- Boilermaker
- Plumber
- Mechanic (including automotive mechanic)
- Diesel mechanic
- Carpenter and Joiner
- Welder
- Rigger
- Fitter and turner
- Mechanical fitter
- Pipe fitter

EWSETA Priority Trades



EWSETA Funds

- Welder
- Mechanical fitter
- Fitter and turner
- Plumber
- Electrician

EWSETA Learning Programmes: Internships



- Interns are provided with supervised on-the-job training which ensures obtainment of work experience
- Interns are paid an allowance which covers transport and other costs related to going to work
- The likelihood of interns being employed permanently is greater



EWSETA Bursaries

- EWSETA offers bursaries annually for qualifications that address identified critical and scarce skills in the Energy and Water Services sector
- Bursaries are granted in line with sector requirements as well as the NSDP 2030
- Learners from disadvantaged backgrounds, as well as other transformation imperatives, are taken into consideration when granting an EWSETA bursary



Keep an eye on the EWSETA website www.ewseta.org.za and social media platforms for details on bursary application opportunities

Recognition of Prior Learning

- Through the EWSETA RPL process, workers within the energy and water sector and their prior learning can be formally recognised in terms of registered qualifications and unit standards, regardless of where and how the learning was attained
- RPL enables progression in your career path
- Through the RPL process one can obtain a qualification in a shorter period of time and at less cost



Additional Resources:

EWSETA Digital Communication Channels



Additional Resources: EWSETA You Tube Career Guidance AVs

The screenshot shows the YouTube channel page for Energy and Water SETA. At the top left is the YouTube logo with a 'ZA' superscript. A search bar is located to the right of the logo. In the top right corner, there are icons for video uploads, a grid, a notification bell, and the SETA logo. The channel name 'Energy and Water SETA' is displayed in a large font, with '6 subscribers' below it. Two blue buttons, 'CUSTOMIZE CHANNEL' and 'MANAGE VIDEOS', are positioned to the right of the channel name. Below this is a navigation menu with tabs for 'HOME', 'VIDEOS', 'PLAYLISTS', 'CHANNELS', 'DISCUSSION', and 'ABOUT'. The 'HOME' tab is selected. Underneath the navigation menu, there is an 'Uploads' section with a 'PLAY ALL' button. Five video thumbnails are shown in a row. Each thumbnail includes a video player image, a duration timer in the bottom right corner, and a title and view count below it. The first two thumbnails are identical, showing a man in a white lab coat and a woman in a pink top. The third shows a woman in a white hard hat and a yellow safety vest. The fourth and fifth show a group of young women in school uniforms. A right-pointing arrow is visible on the right side of the video thumbnails.

YouTube^{ZA} Search

Energy and Water SETA
6 subscribers

CUSTOMIZE CHANNEL MANAGE VIDEOS

HOME VIDEOS PLAYLISTS CHANNELS DISCUSSION ABOUT

Uploads ▶ PLAY ALL

Video Title	Duration	Views	Time Ago
EWSETA Career Guidance and Matric 2020 Exam...	1:01	5 views	2 weeks ago
EWSETA Career Guidance and Matric 2020 Exam...	1:00	14 views	2 weeks ago
Opportunities for young people in South Africa's sol...	3:08	50 views	1 month ago
Thomas Shabalala talks about his career in the wate...	2:52	57 views	2 months ago
Advice for young women interested in becoming an...	3:14	124 views	2 months ago

<https://www.youtube.com/channel/UCvRlfiRIhysBIJdqCgipGPQ/>



Additional Resources: DHET: Khetha Career Guidance Portal



careerhelp.org.za

higher education & training
Department: Higher Education and Training
REPUBLIC OF SOUTH AFRICA

khetha
Make the right choice. Decide your future.

HOME
CAREER DEVELOPMENT SERVICES (CDS)
EDUCATION SYSTEM IN SOUTH AFRICA
CAREER OPTIONS
EDUCATION & TRAINING OPPORTUNITIES
FUNDING YOUR STUDIES
CAREER PUBLICATIONS
VISIT A CAREER CENTRE
FAQS
CONTACT US

Make the right choice. Decide your future.

Search this site... SEARCH

Who are you?

LEARNER STUDENT UNEMPLOYED YOUTH CAREER PRACTITIONER
EMPLOYED ENTREPRENEUR PARENT JOB SEEKER

Welcome to Career Development Services
Click to view

News
Get the latest news on

Information Hub
This is a great information

NCAP
The National Career Advice

Self Help
• Subject Choice



Additional Resources:

Sector Employers



Contact Us



- Website: www.ewseta.org.za
- Email: info@ewseta.org.za
- Address: 32 Princess of Wales Terrace, Parktown, Johannesburg, Gauteng
- Tel: +27 011 247 4700



- ... Stay Safe
- ... Practice Social Distancing
- ... Wear Your Mask
- ... Wash Hands/Sanitise Regularly

And ...

THANK YOU!!