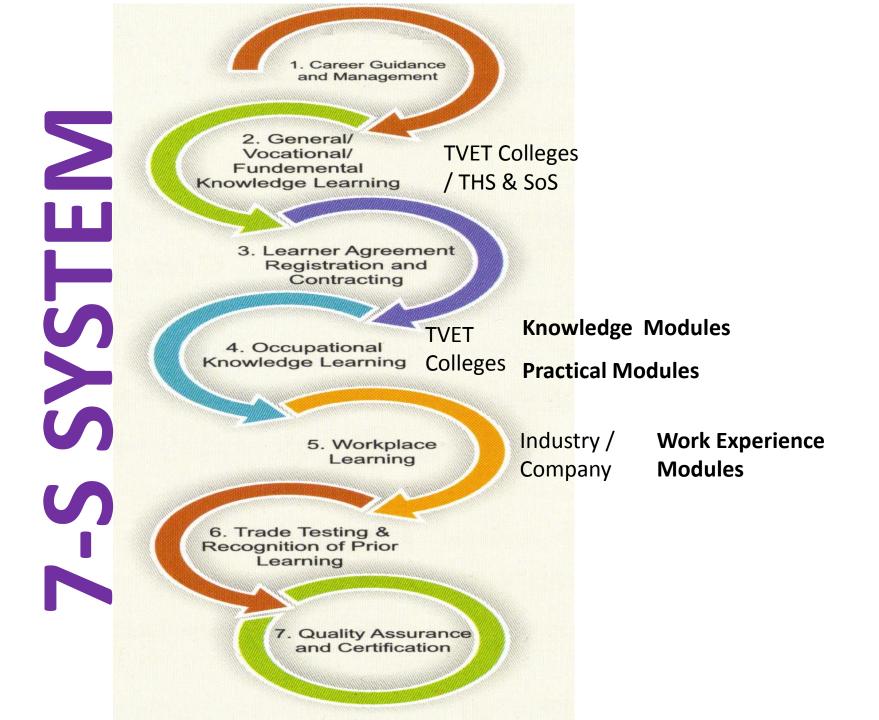


higher education & training

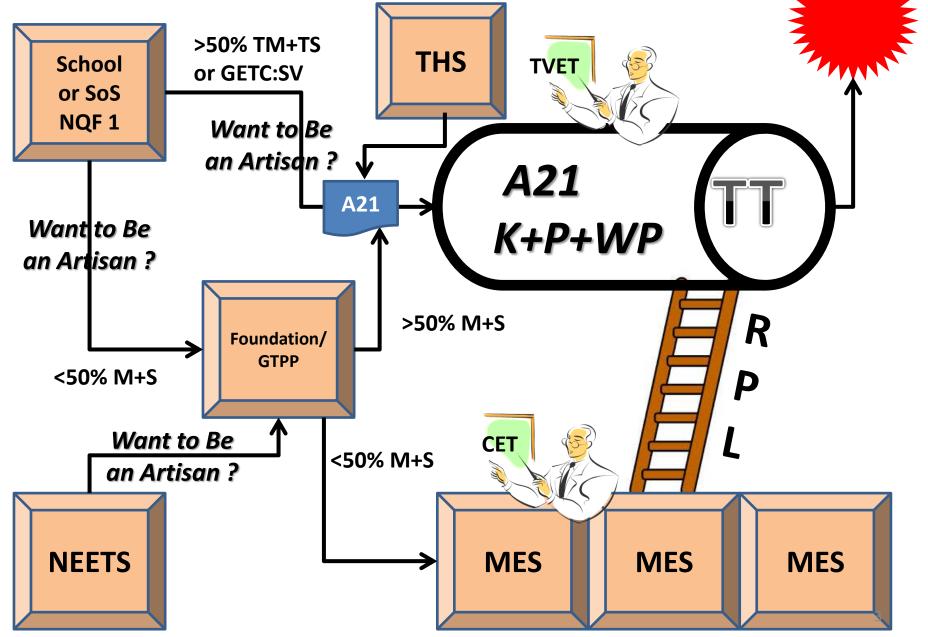
Department: Higher Education and Training REPUBLIC OF SOUTH AFRICA

New TVET Artisan Bridging and Qualifications

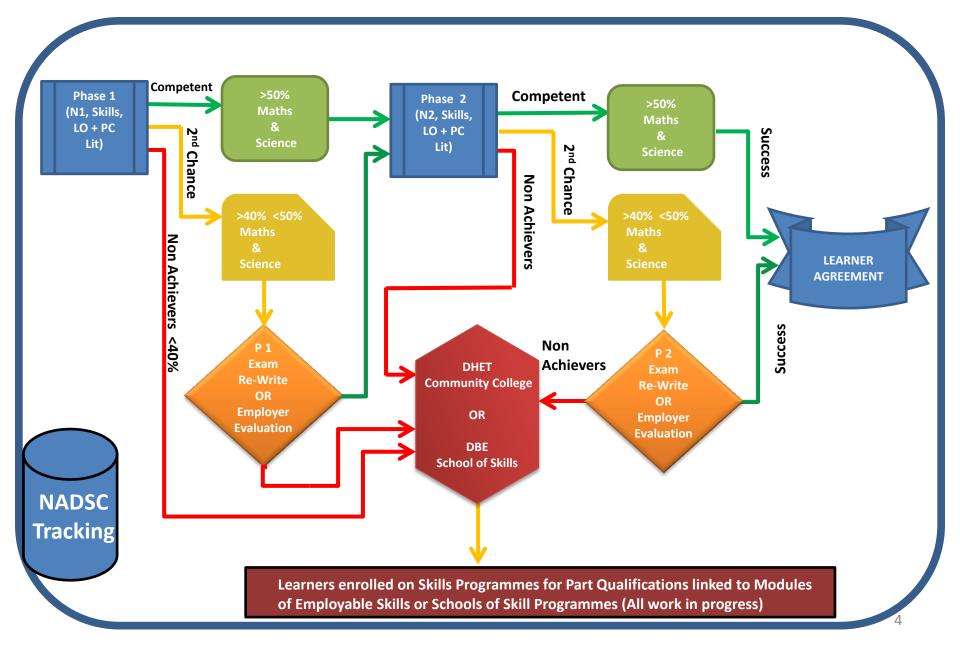
MIKE MASHININI, DHET- INDLELA (NAD)



Alignment of the Gamut for Artisans



GTPP: Workflow



GENERIC TRADE PREPARATION PROGRAMME PHASE 1 (GTPPP1)						
TRIMESTER 1						
REPORT 191	PRACTICAL SKILLS	Level	Module #	LANGUAGE, LIFE ORIENTATION (COMPUTERS & LIFE SKILLS)	Unit Standard #	
Mathematics N1	Purpose of program	1	2	Access and use information from texts (5)	<u>119463</u>	
Industrial Electronics N1				Maintain and adapt oral/signed communication (5)	<u>119454</u>	
Engineering Science N1	 Introduction to Apprenticeship in Motor Industry: Benefits of an apprenticeship Scope of Trades: Motor mechanic, Diesel mechanic, Auto Electrician etc. 		NAD	Use language and communication in occupational learning programmes (5)	<u>119460</u>	
				Write/present for a defined context (5)	<u>119456</u>	
				Apply basic knowledge of statistics and probability to influence the use of data and procedures in order to investigate life related problems (3)	<u>9009</u>	
				Demonstrate understanding of rational and irrational numbers and number systems (3)	<u>7480</u>	
	Keep the work area safe & productive	2	8	Automotive repair and maintenance	13220	
	Basic first aid treatment in the workplace	1	5	Autotronics	119567	
	Basic fire fighting	1	3	Autotronics	252250	
	Select, use and care for engineering handtools	2	2 8 Automotive repair and maintenance 119744		119744	

TRADE PREPARATION PROGRAMME PHASE 2 (GTPPP2)						
TRIMESTER 2						
REPORT 191	PRACTICAL SKILLS	Level	Module #	LANGUAGE, LIFE ORIENTATION (COMPUTERS & LIFE SKILLS)	Unit Standard #	
Mathematics N2	Legal frameworks for Artisanship			Managing files in a Graphical user interface environment (3)	117867	
Industrial Electronics N2	 Acts, Regulations, Quality Assurance & Certification etc. Terms & conditions Grievance procedures Disciplinary procedures 		NAD	Operate a personal computer (3)	116932	
Engineering Science N2				Use generic functions in a Graphical user environment Non-Merseta	258883	
				Managing self-development (12)	7997	
				Measure, estimate and calculate phusical quantities and explore, describe and reprent geometrical relationship in 2-dimensions in different life or workplace contexts (2)	12444	
				Use mathematics to investigate and monitor the financial aspects of personal and community life (2)	7469	
				Work with a range of patterns and fuctions and solve problems (5)	9007	
	Read and interpret and produce basic Engineering Drawings	3	6	Level 3 unit standard linked to Automotive Component Manufacturing	12215	
	Select, use and care for engineering measuring equipment	2	4	Automotive repair and maintenance	12476	
	Select, use and care for Engineering Power Tools	2	6	Automotive repair and maintenance	12219	

Knowledge Modules:

- Health, Safety, Quality and Legislation, NQF Level 4, 5 Credits.
- Tools, Equipment and Materials, NQF Level 4, 8 Credits.
- Electricity and Electronics, NQF Level 4, 13 Credits.
- Industry Context, NQF Level 3, 2 Credits.
- Wireways and Wiring, NQF Level 4, 11 Credits.
- Rotating Electrical Machinery, NQF Level 4, 13 Credits.
- Electrical Supply Systems and Components, NQF Level 4, 31 Credits.
- Low Voltage Protection, NQF Level 4, 5 Credits.
- Fault Finding, NQF Level 4, 3 Credits.

Total number of Credits for Knowledge Modules: 91.

Replaces Trade Theory in NATED

Replaces Artisan Related Vocational Subjects in NCV Delivered at TVET College integrated with Practical Modules over two year period.

Formative Assessments Only - No Exams – SoRs Only Technical High School Learners 100% Credit

National Occupational Qualification : Electrician OFO Code 671101

Practical Skill Modules:

- Use hand and power tools, NQF Level 3, Credits 22.
- Plan and prepare the process for the wiring, connection, testing, inspecting, commissioning and maintaining electrical installations and control systems, NQF Level 3, 5 Credits.
- Prepare worksite set up for installing, wiring and connecting electrical equipment and control systems, NQF Level 3, 3 Credits.
- Install wireways, NQF Level 4, 5 Credits.
- Install, wire and connect electrical equipment and control systems, NQF Level 4, Credits 38.
- Conduct pre-commission inspection (power on and off) fault find and test new and existing installations, NQF Level 4, Credits 5.
- · Carry out commissioning tests, NQF Level 4, Credits 13.
- Fault find and repair electrical control systems and electrical installations, NQF Level 4, Credits 22.

Total number of Credits for Practical Skill Modules: 113.

Delivered at TVET College integrated with Knowledge Modules over two year period.

Formative Assessments Only - No Exams – SoRs Only **Technical High School Learners Practical Only**

Total number of Credits for Knowledge Modules: 91. Total number of Credits for Practical Skill Modules: 113. = 204 Credits = 2 Years

National Occupational Qualification : Electrician OFO Code 671101

Work Experience Modules:

• Planning and preparation process for the wiring, connecting, testing, inspecting, commissioning and maintaining of electrical installations and control systems, NQF Level 4, Credits 8.

• Processes of installation, wiring and connection of electrical equipment and control systems, NQF Level 4, Credits 74.

 Processes of testing and inspecting of electrical equipment, control systems and installations, NQF Level 4, 15 Credits.

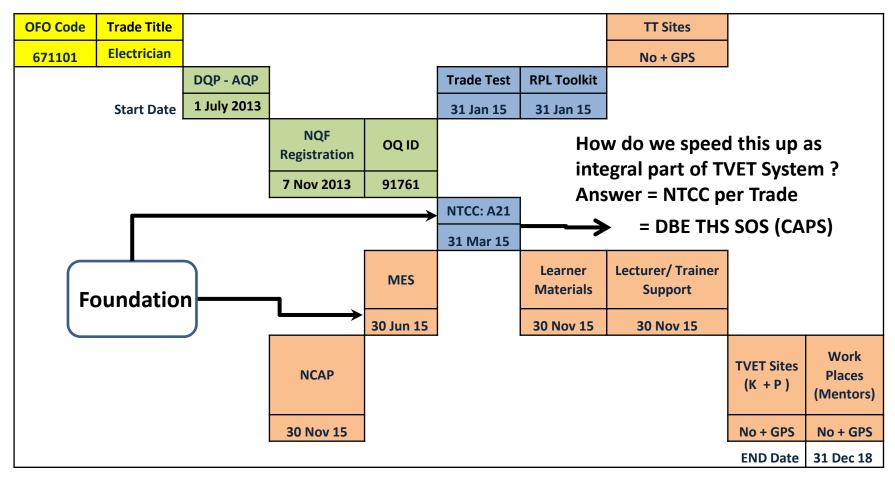
· Processes of commissioning electrical installations and control systems, NQF Level 4, 15 Credits.

· Maintenance processes for electrical installations and control systems, NQF Level 4, 44 Credits.

Total number of credits for Work Experience Modules: 156.

NOTE: 180 Credits per annum at Work as No "Holidays"

On the Job at the Workplace Full Time for 1 year Monitored & Managed by TVET College Final Integrated Summative Assessments + SoRs (Trade Test) Artisan Trade Occupational Qualification Implementation Milestone Plan: Electrician: OFO 671101



Each of the milestone blocks is explained in the legend on the next page using the following colour coding system:

Yellow = Standardised /Codified Processes

Green = Completed Processes

Blue Blocks = Work in Progress

Pink Blocks = Work still to Start

Legend for Artisan Trade Occupational Qualification Implementation Milestone Plan

Milestone Plan Element	Description			
OFO Code	Occupational Code as per Organising Framework for Occupations			
Trade Title	Occupational Title as per Organising Framework for Occupations			
DQP - AQP	This is the date that the Development Quality Partner (DQP) is appointed by the QCTO to coordinate and fund the development of an occupational qualification that includes an Assessment Quality Partner (AQP) for each occupation or groups of occupations such as trades where the NAMB is the AQP for 125 trade occupations.			
NQF Registration	This is the date the occupational qualification is registered on the National Qualifications Framework by the South African Qualifications Authority			
OQ ID	This is the ID Number allocated to the occupational qualification when it is registered on the National Qualifications Framework by the South African Qualifications Authority			
Trade Test	This is the date that the occupationally based national trade test (also known as the external integrated summative assessment) is completed and registered with NAMB			
RPL Toolkit	This is the date that the occupationally based national recognition of prior learning (RPL) toolkit is completed and registered by NAMB and will allow for a single national standard and process for RPL of persons who developed artisanal competencies both in informal and formal sectors of the economy.			
Trade Test (TT) Sites	This is the number of accredited trade test centres and sites across the country linked to a listed trade. At present there 630 of these centres / sites. Each centre / site is being located with GPS coordinates and will be linked in collaboration with Google to an interactive map for Trade Test Centres			
National Trade Curriculum Content (NTCC)	This is the date that the National Trade Curriculum Content (NTCC) is completed for the occupational trade qualification. The NTCC is a detailed syllabus that is based on detailed CAPS curriculum utilised by Technical High Schools in the DBE, but adjusted to accommodate occupational trade qualifications. The NTCC details the learning for each module and set of topics per module for all three components of the occupational qualification. It forms the basis for balance of the milestone delivery plan. The trade test and the NTCC must be developed in tandem to ensure that formative assessments detailed in the NTCC is aligned to and supports the summative assessment or trade test.			
Modules of Employable Skills (MES)	This is the date that all the modules of employable skills (MES) and relevant part qualifications for applicable occupational trade qualifications are completed and registered with NAMB. An MES is workplace-based skills programme that leads to a part qualification of at least 25 credits (two months) that articulates to a full artisan trade qualification. These shorter programmes are designed to allow persons to gain enough competence to be employable for jobs available in the labour market. A person will be given credit accumulation for each MES that is successfully completed.			
National Career Advice Portal (NCAP)	This is the date that the National Career Advisory Portal (NCAP) is updated and fully aligned to the occupationally based qualification route to become a qualified artisan in the relevant trade. The occupationally route will become the standardised route, although all previous "historic" routes will be kept on the NCAP for record purposes.			
Learner Materials	This the date that learner materials that are fully aligned to the occupationally based qualification route to become a qualified artisan in the relevant trade are completed. The learner materials will include standard text books but an open learning policy is also being implemented through a partnership with Google to allow for e-based learning materials to facilitate a range of leaning methodologies over and above face to face learning processes.			
Lecturer/ Trainer Support	This is the date that lecturer and/or trainer support materials that are fully aligned to the occupationally based qualification route to become a qualified artisan in the relevant trade are completed. The materials will include standard text books but an open learning policy is also being implemented through a partnership with Google to allow for e-based learning materials to facilitate a range of leaning methodologies over and above face to face learning processes. The process must be followed by lecturer / trainer training which can include placement in industry for workplace experience.			
TVET Sites	This is the number of accredited learning sites that will offer knowledge and/or practical leaning components of the occupational qualification. A site may deliver only knowledge (classrooms) or only practical (workshops) or both. However an integrated approach where learners are rotated between knowledge and practical training processes will be preferred. Each site is being located with GPS coordinates and will be linked in collaboration with Google to an interactive map for Learning Centres.			
Work Places (Mentors)	This is the number of approved workplaces that will offer the workplace learning components of the occupational qualification. A workplace may be approved for range of trades subject to the workplace having qualified artisans in relevant trades that act as mentors for the artisan learners Each site is being located with GPS coordinates and will be linked in collaboration with Google to an interactive map for Learning Centres.			

Artisan Trade Occupational Qualification Implementation Milestone Plan

Plan Element	Progress	Anticipated Timeframe
DQP - AQP	Completed	August 2013
NQF Registration	Submitted to SAQA	August 2013
OQ ID	Submitted to SAQA	August 2013
Trade Test	Pending Registration of Qualification on NQF	August 2015
RPL Toolkit	Pending Registration of Qualification on NQF	August 2015
TT Sites	Sites details being consolidated from SETAs	December 2015
NTCC	Pending Registration of Qualification on NQF	August 2015
MES	Pending Registration of Qualification on NQF	August 2015
NCAP	Completed for legacy qualifications.	October 2015
Learner Materials	Pending NTCC + MES.	November 2015
Lecturer/ Trainer Support	Pending NTCC + MES.	November 2015
TVET Sites (K + P)	Public & Private Colleges, Training Centres & Schools being identified	December 2015
Work Places (Mentors)	Workplaces per Sector being identified.	December 2015
		12

National Trade Curriculum Content Format Outline per Term per Week: Electrician OFO Code 671101

	Electrician Year: Trimester 1					
WEEK	Торіс	CONTENT - Knowledge	CONTENT – Practical	CONTENT - Workplace		
1	Occupational Health and Safety	Learning Assessment.	Learning Assessment.	Learning Assessment.		

Timelines

- Learner from Technical High School with Grade 12 >50% M + S
 1 Year in College for P + 1 Year Workplace + TT = 2 Years
- Learner from School with Grade 9 >50% M + S
 - 2 Years in College for K/P + 1 Year Workplace + TT = 3 Years
- Learner from School with Grade 9 (NQF 1) <50% M + S
 - 1 Year in College on Bridging GTPP to >50% M+S
 - 2 Years In College for K/P + 1 Year Workplace + TT = 4 Years
- NEETS between Grade 9 Grade 12 <50% M + S
 - 1 Year in College on Bridging GTPP to >50% M+S
 - 2 Years In College for K/P + 1 Year Workplace + TT = 4 Years

THANK YOU

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