



Accredited Provider
The Skills College for Development and Training (Pty)Ltd.

National Certificate: Tyre Repair and Maintenance

Qualification ID 61809 – NQF 2; 120 Credits

INTRODUCTION

This qualification recognises the competencies required to work effectively within the tyre retreading and servicing industries.

Individuals who achieve this qualification in terms of the tyre retreading specialisation area will be able to carry out all aspects of the retreading process within a particular retreading context, and to meet quality and quantity requirements. Qualifying learners will have the skills, knowledge and values to:

- Inspect and select tyres suitable for retreading.
- Prepare the casing through removal of old rubber to achieve the required profile.
- Perform a range of repair techniques to restore the integrity of the casing.
- Apply new tread.
- Cure and perform final finishing and inspection of the retreaded tyre.

Competencies acquired for the tyre retreading specialisation area may be assessed in terms of either the Hot or the Precure retreading process and in the following tyre contexts:

- Passenger vehicle tyres.
- Light or heavy commercial vehicle tyres.
- Agricultural machine/equipment tyres.
- Off-the-road (OTR) machine/equipment tyres.

Individuals achieving this qualification in terms of the tyre and tube repair and fitting specialisation area will be able to carry out all aspects of tyre replacement, maintenance, repair and fitting processes within a particular tyre servicing context, meeting safety, quality and productivity requirements. Qualifying learners will understand tyre construction types and characteristics and fault rectification and will have the skills, knowledge and values to:

- Inspect tyres and determine servicing/repair suitability and requirements.
- Use a range of tools, equipment, materials, products/components and techniques to perform the services required.
- Apply a range of specialised handskills.

Competencies acquired for the tyre and tube repair and fitting specialisation area may be assessed in terms of the following tyre contexts:

- Passenger vehicle tyres.
- Light or heavy commercial vehicle tyres.
- Industrial machine/equipment tyres.
- Agricultural machinery/equipment tyres.
- Off-the-road (OTR) machine/equipment tyres.

Qualifying learners will be able to contribute to the achievement of workplace objectives by maintaining quality standards and applying safe, efficient and productive work practices. They will have a basic understanding of the scientific and technological principles and concepts which underpin tyre retreading or servicing processes, and will be able to relate these to their own work

activities. They will also understand how they should operate within the management, quality and safety systems which govern their workplace.

Rationale:

This qualification recognizes the skills, knowledge and values required by the tyre retreading and servicing industries.

The tyre retreading specialisation area addresses the retreading of passenger, light and heavy commercial vehicles and agricultural and off-the-road (OTR) machine tyres and includes both hot and precure retreading processes. Qualifying learners will be equipped with the full range of competencies required to work effectively in a retreading environment. At the same time the qualification is sufficiently flexible to accommodate the particular requirements of the various contexts within the retreading industry. Within the work environment, tyre retreaders usually specialise in a type of tyre and in a particular aspect of the process. The broad base of skills, knowledge and values that this qualification provides will equip qualifying learners to work effectively within the retreading environment and will enable them to adapt to changes within their working environment. Qualifying learners would be competent to operate a range of machinery, to use a range of tools, materials and techniques and to apply a range of specialised handskills required to produce quality retreaded tyres.

The tyre and tube repair and fitting specialisation area addresses the needs of the tyre servicing industry which is characterized by the provision of tube and tyre maintenance, repair and fitting services for a range of tyre contexts including passenger, light and heavy commercial vehicles, industrial, agricultural and off-the-road (OTR) machine/equipment tyres. This qualification provides a broad base of skills, knowledge and values related to tyre repair and fitting and enables the learner to achieve the more specialised skills and knowledge required by particular tyre contexts. It also recognises and accommodates the differing needs resulting from factors such as geographical situation, company type and size, and the tendency towards specialisation. This will enable qualifying learners to adapt to changes within their working environment, and will allow them a greater degree of flexibility in their employment and career path choices.

The outcomes of this qualification combine practical and theoretical learning in the technical, inter-personal and business spheres, which will enable the qualifying learner to perform the operational aspects of the work, function within an organisational context and contribute to value-adding processes in the workplace.

Typical learners would be persons who are currently employed in a tyre retreading or servicing environment who have not received formal recognition for their skills and knowledge, and new entrants to the industry.

This qualification recognises skills, knowledge and values relevant to a workplace and requires workplace experience. It is suitable for learners who:

Attend courses and then apply the knowledge gained to activities in the workplace (portfolio to reflect formative assessment).

Are already workers and have acquired the skills and knowledge without attending formal courses (RPL can be done through the summative assessment and portfolio of evidence).

Participate in skills programmes and have the appropriate work experience.

Are part of a learnership programme which integrates structured learning and work experience.

Acquire their learning through any combination of the above.

Although this is a single qualification which specifically addresses the needs of the tyre retreading and servicing industries, it provides a sound basis for further learning and career path development.

Qualifying learners would be equipped for further career development in such areas as training, sales, management and stores. The skills and knowledge gained would also provide a foundation for small business development in the tyre servicing field. Further technical development would be possible in the new type and industrial rubber manufacturing fields for those who select the retreading specialization area.

This qualification will benefit society and the economy as the skills and understanding gained by qualifying learners will improve work standards and efficiency, and contribute to economic growth and the upliftment of employees within the type retreading and servicing environments. The emphasis in the qualification on quality of product and service will enhance the safety and well-being of all road users. Qualifying learners will also develop an awareness of their role in conserving resources, in behaving responsibly towards the environment in general, and in observing safety and legal requirements.

This qualification will contribute to social upliftment and development by allowing employees to gain recognition for their skills and knowledge through the recognition of prior learning, and by providing a basis for further learning and career development within the broader type industry.

Recognition of prior learning:

This qualification may be obtained through a process of RPL. The learner should be thoroughly briefed prior to the assessment and support should be provided to assist the learner in the process of developing a portfolio of evidence. The guidelines for integrated assessment should be used to develop the RPL assessment process. As with integrated assessment, while this is primarily a workplace-based qualification, evidence from other areas of endeavor may be introduced if pertinent to any of the Exit Level Outcomes.

Access to the Qualification:

There is open access to this qualification. A workplace is, however, a prerequisite to obtaining the relevant work experience and evidence required for the assessment of the Exit Level Outcomes.

EXIT LEVEL OUTCOMES

1. Perform routine tasks related to tyre retreading/tyre servicing and repair processes.
2. Use and care for tools, accessories, equipment and materials.
3. Collect and use information and communicate issues related to tyre retreading/tyre servicing and repair processes.
4. Contribute to maintaining a safe and productive work environment.

Critical Cross-field Outcomes

TIME PERIOD

This Learnership can be presented over a period of 12 months.

A SELECTION OF THE FOLLOWING UNIT STANDARDS WILL BE COMPLETED THAT IS CONSTITUENT TO 120 CREDITS:

UNIT STANDARDS:

	ID	UNIT STANDARD TITLE	PRE-2009 NQF LEVEL	NQF LEVEL	CREDITS
Core	252259	Plan, organise and manage own activities in the organisation	Level 1	NQF Level 01	2
Core	13222	Deal with safety, health and environmental emergencies in the workplace	Level 2	NQF Level 02	4

Core	12465	Develop a learning plan and a portfolio for assessment	Level 2	NQF Level 02	6
Core	12466	Explain the individual`s role within business	Level 2	NQF Level 02	4
Core	13220	Keep the work area safe and productive	Level 2	NQF Level 02	8
Core	13258	Participate in work group activities	Level 2	NQF Level 02	4
Core	12463	Understand and deal with HIV/AIDS	Level 2	NQF Level 02	3
Core	9879	Use and care for tools and equipment	Level 2	NQF Level 02	10
Fundamental	119463	Access and use information from texts	Level 2	NQF Level 02	5
Fundamental	9009	Apply basic knowledge of statistics and probability to influence the use of data and procedures in order to investigate life related problems	Level 2	NQF Level 02	3
Fundamental	12461	Communicate at work	Level 2	NQF Level 02	5
Fundamental	7480	Demonstrate understanding of rational and irrational numbers and number systems	Level 2	NQF Level 02	3
Fundamental	9008	Identify, describe, compare, classify, explore shape and motion in 2-and 3-dimensional shapes in different contexts	Level 2	NQF Level 02	3
Fundamental	119454	Maintain and adapt oral/signed communication	Level 2	NQF Level 02	5
Fundamental	7469	Use mathematics to investigate and monitor the financial aspects of personal and community life	Level 2	NQF Level 02	2
Fundamental	9007	Work with a range of patterns and functions and solve problems	Level 2	NQF Level 02	5
Fundamental	119456	Write/present for a defined context	Level 2	NQF Level 02	5
Elective	13202	Apply study and learning techniques	Level 2	NQF Level 02	3
Elective	256177	Apply tread rubber to casings	Level 2	NQF Level 02	8
Elective	9874	Direct, receive and communicate with customers on the forecourt	Level 2	NQF Level 02	4
Elective	120313	Investigate work opportunities in order to make a personal employment or work decision	Level 2	NQF Level 02	2
Elective	9268	Manage basic personal finance	Level 2	NQF Level 02	6

Elective	117898	Move, pack and maintain stock in a distribution centre/warehouse	Level 2	NQF Level 02	12
Elective	114902	Operate a computer in a Wholesale/Retail outlet	Level 2	NQF Level 02	6
Elective	242981	Operate defined purpose lift trucks	Level 2	NQF Level 02	4
Elective	242976	Operate overhead/gantry cranes	Level 2	NQF Level 02	5
Elective	256178	Perform activities to cure retreaded and repaired tyres	Level 2	NQF Level 02	6
Elective	12484	Perform basic fire fighting	Level 2	NQF Level 02	4
Elective	12483	Perform basic first aid	Level 2	NQF Level 02	4
Elective	256175	Prepare casings for retreading	Level 2	NQF Level 02	16
Elective	256176	Remove and replace off-the-road (OTR) wheels and tyres	Level 2	NQF Level 02	8
Elective	9867	Remove and replace wheels and tyres, and balance wheels	Level 2	NQF Level 02	2
Elective	12213	Select and use automobile lifting equipment	Level 2	NQF Level 02	3
Elective	12481	Sling loads	Level 2	NQF Level 02	4
Elective	15100	Check and adjust steering geometry	Level 3	NQF Level 03	4
Elective	9868	Demonstrate knowledge of, and rectify faults in motor vehicle tyres and wheels	Level 3	NQF Level 03	7
Elective	256174	Operate equipment for repairing and retreading off-the-road (OTR) tyres	Level 3	NQF Level 03	4
Elective	242978	Operate truck-mounted cranes	Level 3	NQF Level 03	8
Elective	9865	Remove and replace wheels and tyres from industrial machines and equipment	Level 3	NQF Level 03	10
Elective	9864	Repair and replace light and heavy commercial vehicle tyres	Level 3	NQF Level 03	17
Elective	256179	Repair off-the-road (OTR) tyres	Level 3	NQF Level 03	8
Elective	9869	Repair punctures and fit tyres to wheels	Level 3	NQF Level 03	9

