



## MQA SURFACE SKILLS PROGRAM – MQA/SP/0177/19

SAQA US ID	256176		<b>SPECIALISATION ELECTIVE</b>	
Unit Standard Title	Remove and replace off-the-road (OTR) wheels and tyres			
NQF Level	02	SGB	Manufacturing and Assembly Processes	
Credits	8	Notional Hours		80
Duration	Candidate	Knowledge	Practical	Workplace
	Novice	2 days	3 days	4 days / 32 hours
	RPL (Re-fresher)	1-2 days	1-2 days	N/A
	Re-certification	½ day	½ day	N/A
Ratio of candidates to assessor	4:1		4:1	1:1

**NOTE: MQA SKILLS PROGRAM RULES BEFORE A SOR (Statement of Results) CAN BE ISSUED:**

- All Cores need to be completed
- At least 1 Specialisation Elective
- At least 1 General Elective Unit Standard
- Additional 1 Day is required to conduct the Summative Practical Assessment after workplace exposure (logbook).

<p align="center"><b><u>PURPOSE OF THE COURSE</u></b></p> <p>This unit standard reflects the skills, knowledge and values required to remove and replace off-the-road (OTR) wheels and tyres</p>	<p align="center"><b><u>PRE-REQUISITES</u></b></p> <ul style="list-style-type: none"> <li>• Communication at NQF Level 1.</li> <li>• Mathematical Literacy NQF Level 1.</li> <li>• Certified copy of ID</li> <li>• Copy of learners Medical Certificate</li> </ul>
<p align="center"><b><u>SPECIFIC OUTCOMES OF THE COURSE</u></b></p> <ul style="list-style-type: none"> <li>• Remove wheels from OTR machines/equipment and tyres from wheels.</li> <li>• Refit tyres to wheels and wheels to OTR machines/equipment.</li> <li>• Apply knowledge of maintenance requirements for OTR tyres</li> </ul>	<p><b>Processes and events:</b></p> <ul style="list-style-type: none"> <li>• Lifting, securing, lowering OTR machine/equipment.</li> <li>• Removing and refitting wheels and tyres.</li> <li>• Caring for and storing tools and equipment.</li> </ul> <p><b>Causes and effects, implications of:</b></p> <ul style="list-style-type: none"> <li>• Effective and inadequate teamwork.</li> </ul> <p><b>Procedures and techniques:</b></p> <ul style="list-style-type: none"> <li>• Lifting, securing, lowering OTR machines/equipment.</li> <li>• Removing and replacing wheels, tyres, tubes.</li> <li>• Caring for and storing tools and equipment.</li> </ul>
<p align="center"><b><u>ESSENTIAL EMBEDDED KNOWLEDGE</u></b></p> <p>The following items reflect the type of knowledge that the assessor will evaluate</p> <p><b>Names &amp; functions of:</b></p> <ul style="list-style-type: none"> <li>• Types of OTR wheels and tyres.</li> <li>• Tools, equipment, accessories.</li> <li>• OTR machines/equipment.</li> </ul> <p><b>Purpose of:</b></p> <ul style="list-style-type: none"> <li>• Checking tyre pressure.</li> <li>• Safe work practices.</li> <li>• Reporting and documentation.</li> </ul> <p><b>Attributes, descriptions, characteristics and properties:</b></p> <ul style="list-style-type: none"> <li>• Tyre and wheel construction.</li> <li>• Characteristics of different types of tyres, tubes, valves.</li> <li>• Characteristics of tools, equipment, accessories</li> </ul>	<p><b>Sensory cues:</b></p> <ul style="list-style-type: none"> <li>• Indications of wheel/tyre problems.</li> </ul> <p><b>Regulations, legislation, agreements, policies, standards:</b></p> <ul style="list-style-type: none"> <li>• Quality standards.</li> <li>• Manufacturer's specifications.</li> <li>• Company standards.</li> <li>• Applicable safety, health and environmental requirements</li> </ul> <p><b>Theory: rules, principles, laws:</b></p> <ul style="list-style-type: none"> <li>• Relevant principles for lifting, handling tyres.</li> <li>• Torque.</li> <li>• Principles underpinning tyre construction, use and maintenance.</li> </ul> <p><b>Relationships, systems:</b></p> <p>Role of teamwork in safe and effective work practices for securing machine/equipment and removing and refitting wheels and tyres</p>



**RPL Evidence Requirements Prior to Enrolment**

- Mine Induction Records
- Medical Certificate
- Curriculum Vitae
- Testimonial

**Logbook supporting evidence requirements:**

**\* compulsory and \*\* additional supporting evidence.**

- Completed and signed Checklists \*
- Completed and signed Risk Assessment \*
- Clocking records and equipment tag records. \*\*