

NOCC-A21 Electrician: Competence Package

Relevant Occupation/trade title: Electrician			SAQA ID: 91761		
Learning Area 2: Identify, care and use of hand and power tools			Total Hours:		192
Learning Project 4: Safely use basic hoisting and lifting equipment			Total Hours:		24
Requisite learning areas/projects to be in place (Pre-requisite and co-requisite):		• LA 1 (LP 1, 2, 6, 7, 9)			
Learning project description: Move electrical equipment and materials (above 30kg up to 2 tons) from one work location to another by using hoisting and lifting equipment					
Activity phase	Practical Skills Modules Content	Underpinning Knowledge Module Content	Work Experience Module Content	Didactical-methodological advice	Learning materials/Tools and Equipment
Reference to QCTO Curriculum	PM-03-PS02	KM-02-KT01 AK0201	WM-None		
Planning/ Preparation	<p><u>Provide access to (Given):</u> Lifting and hoisting equipment as reflected in the last column as well as a work scenario which requires hoisting and lifting</p> <p><u>Apprentices must be able to do/perform the following (hard and soft) skills:</u></p> <p>Plan and prepare for lifting and hoisting operations</p> <ul style="list-style-type: none">Identify the correct hoisting and lifting equipmentDetermine the safe working load capacity and necessity to get assistancePlan the use of the equipment	<p><u>Knowledge of:</u></p> <ul style="list-style-type: none">Different types lifting and hoisting equipment and their usesHand signalsSignage related to hoisting and liftingSafety precautions regarding lifting and hoisting equipmentSpecialised PPE in the use of lifting and hoisting equipmentLegal requirements to use hoisting and lifting equipmentHow to complete a risk assessment on hoisting and lifting equipmentWork procedures and work	<p><u>Under supervision</u> <i>If the workplace allows for this exposure</i></p> <ul style="list-style-type: none">Select the correct lifting and hoisting equipment for the work task at handPerform risk assessment on lifting and hoisting equipmentMove equipment (above 30kg up to 2 tons) as per company specific requirementsInspect equipment and check registersMove electrical equipment/materials on the work site with hoisting and lifting	Lecture, presentations DVDs, audio-visual Group work Simulations	<p>Print materials, electronic files, software applications incl.:</p> <ul style="list-style-type: none">OHS ActRegistersText booksTraining manuals for trainers and apprentices incl. multimedia softwareSet of presentation aids (videos, slides) for overhead or LED/LCD projectors <p>Lifting equipment and accessories incl.:</p> <ul style="list-style-type: none">Shoulder and arm

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	<ul style="list-style-type: none"> • Perform risk assessment on the task • Check validity on lifting equipment register • Select and wear correct PPE 	<p>documents related to hoisting and lifting equipment</p> <ul style="list-style-type: none"> • Lifting and hoisting techniques • Documentation and reporting requirements • Housekeeping procedures 	<p>equipment under supervision (under various stages of supervision)</p> <ul style="list-style-type: none"> • Store hoisting and lifting equipment, record and report any defects • Maintain hoisting and lifting equipment 		<p>lifts</p> <ul style="list-style-type: none"> • Manual cable hoists • Manual gear chain hoists • Manual rope & pulley hoists • Dollies • Chain blocks • Coffin hoist • Slings (nylon, steel, rope, chains) • D-shackles • Mobi-jack • Eyebolts <p>PPE incl.:</p> <ul style="list-style-type: none"> • Safety gloves • Safety helmet/hard hat • Safety boots
Implementation/ Execution/	<p>Secure and move loads</p> <ul style="list-style-type: none"> • Use lifting and hoisting equipment safely to move electrical equipment • Secure load on lifting equipment • Correctly use PPE • Ensure stability of the load • Direct the movement of the load using standard hand signals for load moving 				
Evaluation/ Documentation	<p>Complete the moving operation</p> <ul style="list-style-type: none"> • Evaluate the correct moving of the electrical equipment according to set criteria • Fill in lifting equipment register • Check and clean lifting and hoisting equipment • Record and report any defects and malfunctions of the used equipment • Store and secure lifting and hoisting equipment 				
Total	Hours: 24				
Specialisation additions	Equipment that requires authorisation				

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Assessment guidance

- Self assessment
- Group assessment
- Theory test

Criteria for assessment:

- Safe lifting and moving of electrical equipment/materials
- Using of specialised PPE
- Using of hand signals
- Ensuring safe working loads and correct slinging methods
- Identifying and selecting lifting equipment in accordance with load requirements
- Inspecting lifting equipment and reporting unsafe or defective equipment in accordance to worksite procedures
- Planning the rigging process.
- Slinging of loads in accordance with load requirements and worksite procedures
- Utilise applicable methods to clear people from the load path and destination
- Lifting, conveying and placing/stacking loads in the pre-determined location in accordance to worksite procedures
- Caring for and storing of equipment in accordance with manufacturer's recommendations and worksite procedures.
- Using the following equipment: chain block (2 ton max), shackles (2 ton max), chain slings (2, 5 ton max), wire rope slings (up to 20mm diameter).

Working in