



RIGGING AND ROPEMEN

Course Duration

On average 27 Months

- 10 Months institutional training
- 15 Months on-the-job
- 02 Months trade test preparation and Trade test

Learner Program Content:

BASIC PHASE	ADVANCED PHASE
- Operate a portable angle grinder	- Operate oxy-acetylene cutting equipment
- Assist in changing a vibrating screen	- Examine and use an overhead crane
- Erect and use an A-Frame	- Use a portable grinder
- Bead and weave weld	- Reeve blocks
- Perform Basic Arc welding	- Replace a dragline bucket
- Splice a back splice in a manila rope	- Erect and use a raised pole
- Change conveyor belt	- Remove, replace and line up a couple
- Course control document	- Rerail a conveyance
- Splice a cut splice in steel wire ropes sling	- Inspect a safety detaching hook
- Read engineering drawings	- Secure a load for transportation
- Examine single drum winches	- Assist with surface mobile crane inspection
- Assist with examining sheave wheels	- Splice a manila grommet
- Erect a temporary working platform	- Splice a soft eye in a manila rope
- Fit clamps to steel wire ropes	- Splice a non spin wire rope
- Replace hoist and drag ropes on dragline	- Splice a soft eye in manila rope
- Winch a load into a tower	- Splice a soft eye in a steel wire rope using the Admiralty method
- Prepare a hoist rope for test specimen	- Short splice in a manila rope
- Shape and finish hand tools	- Safety
- Identify faults in ropes	- Splice a thimble in a manila rope
- Assist with inspection on overhead crane	- Change sheave wheel on draglines
- Identify and coil ropes	- Splice a steel wire rope using the Liverpool method
- Tie knots and bends	- Tow-in broken down mobile equipment
- Check and maintain lifting equipment	- Turn bowl of truck up-side-down

and rigging hardware	
- Lift and move equipment	- Tie hitches
- Lift and move machinery and equipment	- Erect and use a tripod
- Make a long splice in an overland conveyer	- Identify threads
- Do lock-out procedure	- Splice a thimble into a wire rope
- Splice a long splice in a manila rope	- Check and use ladders
- Make a long splice in two steel ropes	- Make up a steel wire rope grommet
- Lift and turn a load	- Whip and seize ropes
- Lift and turn a dragline bucket	- Worm, parcel and serve a rope
- Maintain a pedestal grinder	-

Entrance Requirements:

- All requirements for learners and the following:
- Minimum of Grade 12 Maths and Science or Technical N2 Maths and Engineering Science (Minimum of 40%)
- Candidate will require a full N2 (four subjects) to Qualify for a test.