

Rigger / Signalman

Technology solutions impacting this job...



Predictive & Prescriptive Fleet Management



Autonomous Last Mile Delivery



Dynamic Route Optimisation



Autonomous Last Yard Delivery

Impact assessment...



MEDIUM degree of change in tasks

A small proportion of the job tasks will be substituted by technology solutions, with human intervention required only for high value-adding tasks instead of routine, repetitive tasks

*Within **3 to 5 years**, the role will potentially...*

REQUIRE REDESIGN

Today, this job role is responsible for communications and signaling with the transportation operations team to move cargo onto the transportation, and the set-up, safe and efficient operations and quality checks of the rigging and lifting equipment.

Job tasks today	Impact at task-level / Future view of job tasks	
Set-up, operate and maintain rigging and lifting equipment	M	<ul style="list-style-type: none"> Smart robotics will augment traditional rigging and cargo lifting operations. AR and remote assistance capabilities will aid the job holder in performing maintenance tasks. Focus will shift to operating computerised systems, working with collaborative robots and troubleshooting in case of operational hindrances, and remote monitoring of data from predictive fleet management systems to highlight risks and exceptions.
Prepare cargo for transfer operations	M	<ul style="list-style-type: none"> Robotic sorting solutions will automate the sorting, routing and first-level quality checks of standard-sized goods and cargo. The job holder will be tasked with electronic labelling, RFID / barcode scanning, goods registry into the system, and manually sorting odd-sized items.
Perform equipment quality checks & sustainability support	M	<ul style="list-style-type: none"> Automated processes and robotics solutions will be pre-configured with quality control and sustainability parameters such as fuel consumption, energy efficiency and carbon emissions. The focus of the job role will shift to monitoring such parameters and highlighting deviations for quality control and sustainability.
Highlight safety and health risks, report incidents	M	<ul style="list-style-type: none"> IoT sensors and devices will report incidents of deterioration or impending failures of cargo handling equipment, forklifts etc. thus eliminating the need for this job role to report incidents. The job holder may be required to work with bionic enhancement technologies such as advanced wearables and exoskeletons which have the potential to minimise health and safety risks in the workplace.

In the next 3 - 5 years... Industry 4.0 **technologies will automate some of the manual, labour-intensive tasks** involved in rigging and lifting cargo. The job holder will be tasked with operating advanced robotics systems, working with assistance/collaborative robots, and monitoring key operational parameters for such technology systems.

Emerging skills

As the job holder will be expected to work in a technologically-rich environment with advanced robotic systems, the following skills will become critical:

- Advanced Digital Acumen
- Augmented Reality Application
- Technology Troubleshooting
- Complex Problem Solving
- Decision Making