Future Ready Maritime Workforce

Maritime Singapore is well-equipped with relevant skillsets to enable industry transformation

Port Equipment Engineer

Current



Specialised engineers maintaining machinery and systems

Greater Port Automation and Digitalisation

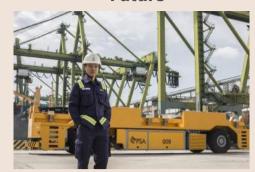


Autonomous unmanned guided vehicles (AGVs) and truck platooning



Sensors and analytics for enhanced sense-making and predictive maintenance

Future



Cross-disciplinary engineers to plan and design intelligent, connected systems to manage and maintain both manned & unmanned equipment

Ship Agent

Current



Handling of fragmented information systems with manual and tedious paperwork

Productivity Improvements



Leverage on technologies (e.g. software robotics) to streamline workflow and reduce manual repetitive work

Future



Multi-skilled to take on higher-value, decision-making tasks

Seafaring Officer

Current



Execution of voyage navigation, cargo handling, and ship operations

Digitalisation and Application of Technologies (e.g. IoT, Analytics)



Smart sensors that feed Big Data to shore for predictive maintenance of vessels



Remote monitoring and diagnostics of global fleet for efficient and safe operations

Future



Operate smart vessels and interface with future port

Remote Port Crane Operator

Current



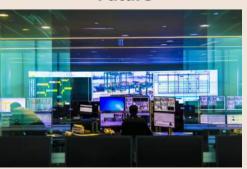
Manual operation of single crane at any one time

Greater Port Automation and Digitalisation



Remote yard crane to increase productivity

Future



Remotely supervise up to 5 cranes in Automated Crane Operations Centre and handle exceptions



