

Annex A: Factsheet on Training Opportunities in Maritime

Training Collaborators	Quote	Key Skills Areas
Singapore Polytechnic	<p><i>"Behind Singapore's success as a major global maritime hub is our national commitment to developing a multi-skilled and innovative maritime workforce with a global mindset. As the first and only polytechnic to offer maritime courses in Singapore, our SGUnited Skills programmes will offer learners of all ages to deepen their domain expertise and acquire multi-disciplinary skillsets in key functions such as ship operations, marine engineering and maritime management. We will continue to collaborate with the Maritime & Port Authority of Singapore and SkillsFuture Singapore to introduce relevant training courses so that the sector can strengthen its efforts in building a talent pool that caters to its long term future growth, and sharpen Singapore's competitive edge as a maritime leader in the world."</i></p> <p>Captain Mohd Salleh Bin Ahmad Sarwan Director, Singapore Maritime Academy Singapore Polytechnic</p>	<p>Seafaring (Class 1 and 2 Deck Officer) – Navigation and Position Determination; Navigational Watch; Ship Seaworthiness and Pollution Prevention</p> <p>Seafaring (Class 1 and 2 Marine Engineer Officer) – Electrical, Electronic and Control Engineering; Propulsion, Plant and Machinery; Maintenance and Repair; Ship Seaworthiness and Pollution Prevention</p> <p>Maritime Superintendency – Ship Seaworthiness and Pollution Prevention; Ship Maintenance and Repair (Dock); Risk Compliance and Governance; Budgeting</p> <p>Maritime Business Management – Ship Operations; Chartering; Data Analytics; Solution Design Thinking</p>
Singapore Management University	<p><i>"We have identified the maritime sector to possess strong growth potential for Singapore's economy. Through this collaboration with MPA and related agencies in the logistics and transport sector, we aim to equip our Singapore workforce with the necessary skills and knowledge to better meet the challenges presented by new disruptions, emerging technologies, changing trends as well as the current crisis caused by the pandemic."</i></p>	<p>Cargo Solutions, Supply Chain Solutioning/ Modelling/ Planning/ Strategising, Risk Management and Administration, Business Innovation and Management</p>

	<p>Lim Lai Cheng (Dr) Executive Director, SMU Academy Singapore Management University</p>	
National University of Singapore	<p><i>"Because of strong interest from the industry, NUS will be conducting a course on digital transformation. Such a curriculum will be beneficial to the maritime industry, as there are many commonalities in approaches to digitalisation projects across sectors. NUS hopes that trainees will develop capabilities in identifying digitalisation opportunities, rallying stakeholders, and managing digital projects."</i></p> <p>Alex Siow Professor (Practice), School of Computing National University of Singapore</p>	Business Process Re-engineering, Digital Technology Adoption and Innovation, Project Management, Maritime Innovation
PSA	<p><i>"Building a resilient and future-ready workforce through reskilling and upskilling have always been a key part of PSA's DNA, and this is paramount in today's new normal. We are glad to support the SGUnited training programmes by equipping trainees with the foundational knowledge to apply digital and data-intensive skills with systems thinking in an industrial setting, including the importance of ESG for a forward-looking organisation."</i></p> <p>Ong Kim Pong Regional CEO – Southeast Asia PSA International</p>	Industrial Automation, Systems Engineering, Data Analytics
DNV GL	<p><i>"The digital transformation of the maritime industry is accelerating globally as a result of the COVID-19 crisis. Maritime professionals need to be equipped with up-to-date skills to tackle the latest developments in technology, innovation and regulations in this rapidly changing and complex environment. We are proud to be partnering with MPA to support the SGUnited programme and strengthen the maritime workforce in Singapore by leveraging DNV GL's deep technical expertise."</i></p> <p>Cristina Saenz de Santa Maria, Regional Manager for South East Asia, Pacific & India DNV GL Maritime</p>	Ship Operations; Crew Management; Risk Compliance and Governance; Technology Integration
American Bureau of Shipping	<p><i>"Technology is changing traditional jobs and the types of skills that are needed in industry. ABS is keen to help mid-career individuals acquire new skills and develop a next-generation workforce. Modelling and simulation is essential for analysis and design of complex</i></p>	Modelling and Simulation; Control System Programming; Risk Control and Response Planning; Systems Thinking Application

systems, and leading maritime companies globally have started to leverage this technology to improve products and/or operations. Given digitalisation trends, modelling and simulation will become increasingly important, with applications not just in maritime, but also in other industries.”

Gu Hai (Dr)
ABS Vice President, Singapore Innovation
Research Center