

Skills Framework for Marine and Offshore

Programmes that broaden or deepen specific skills and knowledge
for the various occupations in the sector

Design and Engineering

Job Role:
Senior Design Engineer

Full Qualification Programme	Provider
Master of Science in Offshore Technology	National University of Singapore

Technical Skills and Competencies (TSC)			Modular Programmes	Providers
Category	Title	Proficiency Level		
Business Development	Business Negotiation	4	Participate in Negotiations	Auston Institute of Management Pte Ltd
			Negotiation Skills	Capelle Academy Pte Ltd
			"Effective Negotiation Skills"	Everest Innovation Pte Ltd
			Participate in negotiations	Human Capital (Singapore) Pte Ltd
			Essential Negotiation Skills	Marketing Institute of Singapore
			Participate in negotiations	Nanyang Polytechnic
			Participate In Negotiations	Seraphcorp Institute Pte Ltd
WSQ Participate In Negotiations	SFIC Institute Pte Ltd			
Business Finance	Financial Planning	3	BM-AC-301E-1 Prepare Consolidated Financial Reports	Kaplan Professional
General Management	Crisis Management	3	CM-360 Implementing a Crisis Management Plan	BCMI Pte Ltd
	Innovation Management	3	Business Management and Diploma Core Unit (Bundled)	William Angliss Institute Pte Ltd
			Contribute to Innovation	Capelle Academy Pte Ltd
			"Innovation : Turning Ideas into Gold (Project)"	Everest Innovation Pte Ltd
Marine and Offshore System Design	Ballast System Design	4	M6810 Ship Design and Construction	Nanyang Technological University
	Fuel and Lube System Design	4	M6814 Marine Engineering	Nanyang Technological University
	Heat Transfer System Design	4	M6814 Marine Engineering	Nanyang Technological University
	Heating, Ventilation and Air Conditioning System Design	4	M6814 Marine Engineering	Nanyang Technological University
	Instrumentation and Control System Design	4	M6814 Marine Engineering	Nanyang Technological University
	Marine Equipment Material Selection	4	M6810 Ship Design and Construction	Nanyang Technological University
	Power Generation System Design	4	M6814 Marine Engineering	Nanyang Technological University
	Propulsion System Design	4	M6810 Ship Design and Construction	Nanyang Technological University
			M6811 Ship Hydrodynamics	
			M6813 Ship Dynamics	
Pump and Piping Design	4	M6810 Ship Design and Construction	Nanyang Technological University	
		M6812 Ship Structures		
		M6814 Marine Engineering		
Safety System Design	4	M6810 Ship Design and Construction	Nanyang Technological University	
		M6814 Marine Engineering		
Marine Calculations	Marine Engineering Calculations	3	M6811 Ship Hydrodynamics	Nanyang Technological University
			M6814 Marine Engineering	
	Naval Architecture Calculations	5	M6810 Ship Design and Construction	Nanyang Technological University
			M6813 Ship Dynamics	
Research and Development	Green Ship Design	4	M6810 Ship Design and Construction	Nanyang Technological University
			M6811 Ship Hydrodynamics	
			M6813 Ship Dynamics	
Technical Drawing	Structural and Arrangement Drawing	3	M6810 Ship Design and Construction	Nanyang Technological University
			M6812 Ship Structures	

For Generic Skills and Competencies (GSCs) programme listing, please refer to Section (v) (c) - View the Training Programmes for GSCs. Or click this [link](#) to view the GSCs Programme Listing.

