

## Skills Framework for Marine and Offshore

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

**Manufacturing, Building, Maintenance,  
Repair, Overhaul and Installation**

**Job Role:  
Assistant Production Engineer**

Full Qualification Programme	Provider
Diploma in Engineering (Marine SBMCs)	Ngee Ann Polytechnic
Diploma in Engineering (Electrical)	
Diploma in Engineering (ME_SBMCs)	
Diploma in Engineering (AMS_SBMCs)	
Specialist Diploma in Marine Production (SBMCs)	
Technical Diploma in Marine and Offshore Engineering (Production)	Institute of Technical Education

Technical Skills and Competencies (TSC)			Modular Programmes	Providers
Category	Title	Proficiency Level		
Marine and Offshore System Design	Instrumentation and Control System Design	3	Instrumentation and Control (AMS SBMCs)	Ngee Ann Polytechnic
	Marine Equipment Material Selection	3	Marine Production Technology (MOT SBMCs)	Ngee Ann Polytechnic
Marine Calculations	Marine Engineering Calculations	2	Engineering Mechanics (AMS SBMCs)	Ngee Ann Polytechnic
			Marine Production Technology (MOT SBMCs)	
			Mechanical Aspects Of Mechatronic Systems (AMS SBMCs)	
Power Hydraulics (AMS SBMCs)				
Strength Of Materials (AMS SBMCs)				
	Naval Architecture Calculations	3	Marine Production Technology (MOT SBMCs)	Ngee Ann Polytechnic
Marine Manufacturing	Computer Numeric Control Operations	3	Computer Programming (AMS SBMCs)	Ngee Ann Polytechnic
			Marine Production Technology (MOT SBMCs)	
	Forming	3	Marine Production Technology (MOT SBMCs)	Ngee Ann Polytechnic
	Joining and Welding	3	Marine Production Technology (MOT SBMCs)	Ngee Ann Polytechnic
	Laser and Optics Application	3	Marine Production Technology (MOT SBMCs)	Ngee Ann Polytechnic
	Non-destructive Testing	4	Marine Production Technology (MOT SBMCs)	Ngee Ann Polytechnic
	Robotics and Automation Application	3	Advanced Manufacturing Systems and Management (ME_SBMCs)	Ngee Ann Polytechnic
			Basic Microcontroller Programming (AMS SBMCs)	
			Communication and Vision Systems (AMS SBMCs)	
			Computer Programming (AMS SBMCs)	
Industrial Automation (AMS SBMCs)				
Industrial Drive Systems (AMS SBMCs)				
Microcontroller Interfacing and Applications (AMS SBMCs)				
Unmanned Systems (AMS SBMCs)				
	Surface Preparation and Protection	3	Marine Production Technology (MOT SBMCs)	Ngee Ann Polytechnic
Product Finalisation	Component Assembly	4	Industrial Automation (AMS SBMCs)	Ngee Ann Polytechnic
			Marine Production Technology (MOT SBMCs)	
			Mechanical Aspects Of Mechatronic Systems (AMS SBMCs)	
			Mechanical Design (AMS SBMCs)	
	Installation Planning and Execution	3	Marine Production Technology (MOT SBMCs)	Ngee Ann Polytechnic
	Launch Planning and Management	4	Marine Production Technology (MOT SBMCs)	Ngee Ann Polytechnic
Quality Management	Electrical Testing	3	Analog Electronics and Applications (AMS SBMCs)	Ngee Ann Polytechnic
			Electrical Technology (AMS SBMCs)	
			Industrial Automation (AMS SBMCs)	
			Industrial Drive Systems (AMS SBMCs)	

	Quality System Management	2	Advanced Manufacturing Systems and Management (ME_SBMCs)	Ngee Ann Polytechnic
	Structural Testing	3	Marine Production Technology (MOT SBMCs)	Ngee Ann Polytechnic
	Technical Inspection	3	Analog Electronics and Applications (AMS SBMCs)	Ngee Ann Polytechnic
			Basic Microcontroller Programming (AMS SBMCs)	
			Communication and Vision Systems (AMS SBMCs)	
			Digital Electronics and Applications (AMS SBMCs)	
			Electrical Technology (AMS SBMCs)	
			Industrial Automation (AMS SBMCs)	
			Instrumentation and Control (AMS SBMCs)	
			Marine Production Technology (MOT SBMCs)	
			Microcontroller Interfacing and Applications (AMS SBMCs)	
	Unmanned Systems (AMS SBMCs)			
Repair and Maintenance	Marine Equipment and System Maintenance	4	Marine Production Technology (MOT SBMCs)	Ngee Ann Polytechnic
Supply Chain Management	Material Inspection	3	Marine Production Technology (MOT SBMCs)	Ngee Ann Polytechnic
Systems Engineering	Interface Management	3	Analog Electronics and Applications (AMS SBMCs)	Ngee Ann Polytechnic
			Digital Electronics and Applications (AMS SBMCs)	
			Electrical Technology (AMS SBMCs)	
			Industrial Automation (AMS SBMCs)	
			Instrumentation and Control (AMS SBMCs)	
			Microcontroller Interfacing and Applications (AMS SBMCs)	
	Power Hydraulics (AMS SBMCs)			
	Systems Integration	3	Basic Microcontroller Programming (AMS SBMCs)	Ngee Ann Polytechnic
			Communication and Vision Systems (AMS SBMCs)	
			Computer Programming (AMS SBMCs)	
			Industrial Automation (AMS SBMCs)	
			Instrumentation and Control (AMS SBMCs)	
Industrial Drive Systems (AMS SBMCs)				
Microcontroller Interfacing and Applications (AMS SBMCs)				
Unmanned Systems (AMS SBMCs)				
General Management	Programme Management	3	Marine Production Technology (MOT SBMCs)	Ngee Ann Polytechnic
	Service Excellence	3	Establish Relationships for Customer Confidence	Capelle Academy Pte Ltd
			Establish Relationships for Customer Confidence (Version B)	
			UP! Your Service : Increasing Customer Loyalty	
			UP! Your Service: Increasing Customer Loyalty (Version B)	
			Establish Relationships for Customer Confidence	Center for Competency-Based Learning and Development Pte Ltd
			Establish Relationships for Customer Confidence	Civil Service College
			Establish Relationships for Customer Confidence	DSI Academy Pte Ltd
			WSQ Establish Relationships for Customer Confidence	Eagle Infotech Consultants Pte Ltd
			Building Rapport to Create Selling Opportunities	Impact Management Seminars Pte Ltd
			Effective Customer Service Skills (Building Rapport Module)	
			Establish Relationships for Customer Confidence	Integrated Training Consultants Pte Ltd
			Establish Relationship for Customer Confidence (Chinese)	Loyal Reliance Pte Ltd
			Establish Relationships for Customer Confidence	Mendaki Social Enterprise Network Singapore Pte Ltd
			WSQ Establish Relationships for Customer Confidence	NTUC LearningHub Pte Ltd
			WSQ Establish Relationships for Customer Confidence powered by Disney Institute	
			Establish Relationships for Customer Confidence	Rohei Corporation Pte Ltd
			Establish Relationships for Customer Confidence	Service Quality Centre Pte Ltd
			Role Modelling to Establish Customer Relationship	Singapore Chinese Chamber Institute of Business
			Role Modelling to Establish Customer Relationship (in Chinese)	
Establish Relationships for Customer Confidence	Singapore Institute Of Retail Studies			
WSQ SE: Establish Relationships for Customer Confidence	Singapore National Employers Federation			
Establish Relationship for Customer Confidence	Training Masters Workforce Institute Pte Ltd			
Establish Relationships for Customer Confidence	Training Vision Institute Pte Ltd			
Establish Relationships for Customer Confidence	William Angliss Institute Pte Ltd			

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.