

New Zealand Diploma in Port Operations (Level 5) with strands in Vessel planning, and Yard planning [Ref: 2815]			
Level	5	Credits	120
Assessment standards aligned with qualification outcomes			
Outcome	Unit Standards		
Outcome 1 Manage legislative and health and safety requirements for port cargo movements and storage to ensure safe and efficient port operations. (Credits 20)	<ul style="list-style-type: none"> - Management of compliance with regulatory obligations including health and safety, biosecurity, environment, and customs and border security - Advanced hazard management and dangerous goods movement and storage - Management of regulatory non compliance in the workplace - Management of emergencies - Fatigue, drug, and alcohol policy compliance - Management of spills and noise 		
Outcome 2 Demonstrate an advanced understanding of the strategic management of cargo flow to plan port cargo operation. (Credits 30)	<ul style="list-style-type: none"> - On port supply chain, capacity and cargo flow strategic management - Principles of time, space, weight, gravity, and logistics - Advanced problem solving to resolve unforeseen cargo flow issues 		
Outcome 3 Apply advanced communication and leadership skills to oversee shifts, labour force, and machinery resources. (Credits 30)	<ul style="list-style-type: none"> - Operational planning: Development and implementation of port operational plans - labour allocation, plant resources, capacity considerations, deadlines, priorities, contingencies, project management skills - Organisational leadership: Self awareness, self regulation, EQ, limitations, confidence building, assertiveness, communication skills verbal and written, motivation, managing vertically and horizontally, social skills, empathy, understanding organisational visions and goals - Delegation/people management: Team dynamics, conflict resolution, active communication skills, negotiation skills, person development, performance management, coaching - Efficient multitasking, organisation, and time management 		
Vessel Planning strand			
Outcome 4 Demonstrate an advanced knowledge of vessel types and their cargo carrying	<ul style="list-style-type: none"> - Vessel types: Bulk, RORO, container, tanker, break bulk, multi purpose, heavy lift, reefer - Capability variations between vessel types 		

capabilities to compare loading options. (Credits 10)	<ul style="list-style-type: none"> - Vessel safety - Maritime rules.
<p>Outcome 5</p> <p>Plan vessel loading and use cargo management systems to load a vessel (Credits 30)</p>	<ul style="list-style-type: none"> - Stowage planning theory - Cargo securement - Cargo segregation (especially hazardous) - Load planning - Cargo management systems (such as SAP, Jade, NAVIS) - Specialist container loading - Displacement, stability, and buoyancy - Container pile weights - Deck loading weights - Draft surveys - Ships gear - Loading stability, stress, and distribution - Monitoring cargo weight variation - Calculating stowage densities
Yard planning strand	
<p>Outcome 6</p> <p>Prepare and implement a yard plan to manage capacity and resources (Credits 10)</p>	<ul style="list-style-type: none"> - yard management systems (such as SAP, Jade, NAVIS) - land side and yard resource allocation - spills and noise considerations - resource allocation - capacity planning
<p>Outcome 7</p> <p>Plan and manage port cargo movements to efficiently control the movement and storage of cargo. (Credits 30)</p>	<ul style="list-style-type: none"> - marshalling - receiving and delivering (R&D) - hazardous cargos - refrigerated product - inspection - fumigation - log scaling - quality control - over-dimension cargo - damaged product