|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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) | | - 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) | | - 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) | | - 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 capabilities to compare loading options.  (Credits 10) | | - Vessel types: Bulk, RORO, container, tanker, break bulk, multi purpose, heavy lift, reefer  - Capability variations between vessel types  - Vessel safety  - Maritime rules. | | |
| Outcome 5  Plan vessel loading and use cargo management systems to load a vessel (Credits 30) | | - 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 | | | | |
| Outcome 6  Prepare and implement a yard plan to manage capacity and resources (Credits 10) | | - yard management systems (such as SAP, Jade, NAVIS)  - land side and yard resource allocation  - spills and noise considerations - resource allocation  - capacity planning | | |
| Outcome 7  Plan and manage port cargo movements to efficiently control the movement and storage of cargo.  (Credits 30) | | - marshalling  - receiving and delivering (R&D)  - hazardous cargos  - refrigerated product  - inspection  - fumigation  - log scaling  - quality control  - over-dimension cargo  - damaged product | | |