

National Certificate in Energy and Chemical Plant (Process Operation) (Level 2) with optional strand in Petrochemical Industry

COMPULSORY – The following standards are required				
Unit	Unit Title	Level	Credit	Tick
3032	Operate valves on energy and chemical plant	4	8	✓
3047	Interpret, use, and sketch process drawings for energy and chemical plant	3	2	✓
4553	Operate common pumps, compressors and fans in a chemical and energy environment	2	5	✓
17602	Apply hazard identification and risk assessment procedures in the workplace	3	4	✓
21452	Monitor energy and chemical plant and processes	3	5	✓
21459	Demonstrate knowledge of pipework and fittings in the energy and chemical industry	2	4	✓
21464	Demonstrate knowledge of basic thermodynamics and measurement for energy and chemical plant	3	6	✓
21467	Store and handle chemicals for energy and chemical plant	3	8	✓
21468	Demonstrate knowledge of energy and chemical plant pollutants and their control measures	2	5	✓
21469	Operate energy and chemical plant personnel safety systems	2	5	✓
TOTAL OF 52 COMPULSORY CREDITS REQUIRED			52	

ELECTIVE – A minimum of 1 standard				
Unit	Unit Title	Level	Credit	Tick
3054	Read and interpret instruments used on energy and chemical plant	3	5	
3060	Take product samples for energy and chemical plant	2	3	

OPTIONAL STRAND

PETROCHEMICAL INDUSTRY				
The following standards are required				
Unit	Unit Title	Level	Credit	Tick
3271	Suppress fire with hand extinguishers and fixed hose reels	2	1	
4647	Explain principles of fire science	2	1	
9618	Use and interpret petrochemical industry documentation	3	3	
9621	Interpret symbols, signs, and terminology specific to a petrochemical environment	2	2	
17593	Apply safe work practices in the workplace	2	4	
18426	Demonstrate knowledge of hazards associated with confined space	3	4	
19417	Demonstrate knowledge of gas testing theory in a petrochemical environment	2	3	
19418	Demonstrate knowledge of basic chemistry used in petrochemical environments	2	4	