

## National Certificate in Energy and Chemical Plant (Boiler Operation) (Level 2)

COMPULSORY				
Unit	Unit Title	Level	Credit	Tick
3046	Operate energy and chemical plant fire safety equipment	3	5	✓
21461	Demonstrate knowledge of the basic principles of steam generation and of combustion theory	2	6	✓
21462	Demonstrate knowledge of the basic equipment and systems used for steam generation	2	8	✓
21463	Operate and monitor a boiler up to 20 MW	2	6	✓
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	✓
21470	Identify boiler house chemicals and explain their safety procedures	2	3	✓
<b>TOTAL OF 38 COMPULSORY CREDITS REQUIRED</b>			<b>38</b>	

ELECTIVE – A minimum of 4 credits				
Unit	Unit Title	Level	Credit	Tick
497	Protect health and safety in the workplace	1	1	
3032	Operate valves on energy and chemical plant	4	8	
3054	Read and interpret instruments used on energy and chemical plant	3	5	
17603	Demonstrate knowledge of properties of raw water and its uses in energy and chemical plant	2	6	
20645	Describe the requirements of the HSNO Act 1996 relevant to approved handlers	3	3	
21452	Monitor energy and chemical plant and processes	3	5	
21460	Meet requirements of person responsible for an unattended boiler	3	8	
21464	Demonstrate knowledge of basic thermodynamics and measurement for energy and chemical plant	3	6	
21465	Operate pumps on energy and chemical plant	4	8	
21467	Store and handle chemicals for energy and chemical plant	3	8	