



Job Description – Senior Process Safety Engineer

Job Title	Senior Process Safety Engineer
Department	Process Safety Department
Reporting to	Chemical Process Safety Manager
Responsible for	N/A
Location	Standish Site
Hours of Work	8am – 4pm Monday to Friday
Contract	Permanent [6 Month probation period]

Job purpose The main purpose of the Senior Process Safety Engineer is the control of all equipment on both sites to ensure they always run safely and efficiently, and to maintain and control an effective system. Any other reasonable task requested by the Directors would also be included in the responsibilities.

- Responsibilities**
- Working closely with process chemicals and control engineers to ensure the production plant is set up to provide maximum output and efficient running of the production facility
 - Designing plant and equipment configuration so that they can be readily adapted to suit the product range and the process technologies involved, taking environmental and economic aspects into account
 - Instituting scale-up and scale down processes including appropriate changes to equipment design and configuration
 - Assessing options for plant expansion or reconfiguration by developing and testing process simulation models
 - Designing, installing, and commissioning new production machinery, including monitoring development and troubleshooting
 - Optimising production by analysing processes and compiling de-bottleneck studies
 - Apply new technologies
 - Ensuring that potential safety issues related to the project operator, the environment, the process, and the product are considered at all stages
 - Organise and chair hazard studies – HAZOPs, SIL/LOPA, HAZIDs
 - Coordinate preparation of major hazard risk assessments
 - Provide functional safety expertise to the engineering department
 - Define the Chemical and Operational (Fire and Explosion Prevention) Bases of Safety of processes.
 - Conduct Process Hazard Assessments (PHA) of new and existing processes
 - Supervise/mentor Junior Engineers
 - Carry out pressure relief and general process engineering calculations



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Skills / Knowledge / Experience	Essential	Desirable
Chemical Engineering degree or in a similar technical field, background, or qualification	X	
Minimum of 5 years relevant chemical experience	X	
Excellent verbal and written communication skills	X	
Experienced & effective problem solver, leading problem-solving teams both cross-functional and within Production, Engineering and Technical functions providing analytical solutions & effective actions		X
Ability to work independently and as part of a team	X	
Able to multitask and be self-driven	X	
Positive outlook and clear focus	X	
Technically proficient in all areas of process safety and loss prevention e.g. HAZOP, PHA etc	X	
Proficient in Word, Excel, Outlook, and PowerPoint	X	
Knowledge and experience of relevant H&S and Environmental Legislation	X	
Sound knowledge of manufacturing improvement strategies and approaches (e.g. Six Sigma, Lean, FMEA etc.)		X
Demonstrate knowledge of COMAH, DSEAR, ATEX and other Health and Safety legislations applicable to Bitrez	X	
Demonstrate knowledge of Bases of Safety		X