Module Synopsis

Specialist Diploma in Process Operations Safety & Health (NSPOSH)

PDC 1:	**Post-Diploma Certificate in Occupational Health & Safety Engineering**	**(180 hours)**
1.	**CP1231: Occupational Health & Safety Engineering**	**(45 hours)**
This module equips learners with foundational knowledge and practical understanding of occupational health and safety within the Singapore context. Learners will examine applicable OHS legislation, standards and organisational responsibilities, and develop competencies in incident reporting, investigation and root cause analysis. Emergency preparedness, response roles and hazard isolation for accident prevention are also covered. Learning is supported by online resources, real-world case studies, and guided reading of local legislation and codes of practice.		
2.	**CP1222: Safety Management & Audit ***	**(45 hours)**
This module covers important topics in managing and auditing safety in the workplace. Learners will be taught the importance of safety policy and culture at work and how best to implement and communicate these policies to the workforce. The different quality management standards are also explored. Learners are also taught the processes of developing a safety audit system, how to plan and implement an audit and also how to prepare an audit report.		
3.	**CP1223: Risk Assessment & Management ***	**(45 hours)**
The module on Risk Assessment and Management aims to introduce learners to the tenets underlying risk assessment and management and are exposed to methods of assessing and managing risk at the workplace. In order to implement better risk management programmes, learners are also taught decision-making processes and strategies and how these influence risk decisions. Social, economic, cultural and psychological factors affecting decision making will be discussed and applied to risk decision making. The implementation of OHS risk management at workplace requires the use of different type of tools and methodologies which will be discussed. Standards used to assess OHS risk management will be discussed. How risks assessed, communicated and controlled will also be covered.		
4.	**CP1234: Chemical Engineering Processes**	**(45 hours)**
This module provides learners chemical engineering principles and applications of engineering measurements, including the types of processes (unit operations) and equipment used in the chemical industry, pharmaceutical and adjacent industries. It will cover the concepts of material balance which enables learners to perform material balance on common unit operations and on processes without chemical reactions. Learners will also learn to represent processes using a block flow diagram and process flow diagram.		

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PDC 2:		**Post-Diploma Certificate in Operational Chemical Engineering**	**(120 hours)**
1.	**CP1225:**	**Pharmaceutical & Biopharmaceutical Operations & Validation**	**(30 hours)**
	This module will provide learners with the knowledge and skills to operate and validate various types of pharmaceutical and biopharmaceutical processes and equipment, and to comply with the relevant regulations and best practices.		
2.	**CP1236:**	**Process Maintenance, Sampling & Troubleshooting**	**(45 hours)**
	This module will provide learners with the knowledge and skills to perform basic maintenance and troubleshooting of various types of chemicals, pharmaceutical, and biopharmaceutical processes and equipment, and to ensure the reliability and availability of the processes and equipment.		
3.	**CP1237:**	**Chemical Process Operations & Control**	**(45 hours)**
	This module will provide learners with the knowledge and skills to operate and control various types of chemical processes and equipment, and to ensure the quality and safety of the products and processes.		

* The following modules will be conducted by SUSS, with credit transfer to SUSS programmes upon module completion (with minimum of pass grade). More details are provided in the table below.

Modules conducted by SUSS under PDC 1 (WSP-NSPOSH and NSPOSH):	**Credit transfer for modules in BSc WSH and BSc HFS programmes:**
CP1222 Safety Management & Audit	Safety Management and Audit (HFS351)
CP1223 Risk Assessment & Management	Risk Assessment and Management (HFS371)

All credit recognitions are subject to SUSS's prevailing admission requirements.