

(SCTP) Sustainable Process Operations

Course Introduction

This programme consists of four (4) certificates to be conducted within two (2) months. Classes will be conducted in part-time mode (evening).

The course features a blend of in-class lectures, tutorials, hands-on practical sessions, and asynchronous learning packages. Spanning 8 weeks, participants will complete 4 modules, covering essential knowledge and skills in process operations, occupational safety and health, and sustainability elements tailored specifically to the chemical, petrochemical and pharmaceutical industries.

Programme certificates breakdown are as follows:

1. Certificate of Performance in Chemical Industry Workplace Safety

This course is designed to complement the one-day Apply Workplace Safety and Health in Process Plant (AWSHPP Course) that is mandatory for any worker who is carrying out work in a factory of the oil and petrochemical industry. The course is designed to provide participants with a deeper understanding of the essential safety measures and practices required to ensure a safe work environment in the chemical and pharmaceutical industries.

2. Certificate of Performance in Chemical Process Fundamentals

This course covers the fundamental operating principles and concept of common chemical process unit operations. On completion, participants without any formal chemical engineering training will acquire basic concepts of chemical engineering including mass and energy balances and the concept of unit operations.

3. Certificate of Performance in Chemical Process Operations and Skills

This course is designed for anyone who wants to gain the essential skills and knowledge they need to work in the process industries. Through lectures, demonstrations, and hands-on activities, participants will gain the practical experience they need to operate and monitor common process unit operations.

4. Certificate of Performance in Digitalisation in the Process Industry

This course is designed to equip participants with an introductory knowledge and practical exposure to a wide array of applications in data analytics, as well as the utilisation of smart equipment, digital tools, and wearable technologies that are relevant and applicable to the process industries.