

Higher Nitec in Chemical Process Technology

HF3CP

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3 month IA Duration

CE43008FPE

1. Maintain workplace safety
2. Maintain compliance with WSH system
3. Maintain compliance with EMS guidelines
4. Perform workplace housekeeping
5. Respond to emergency situation
6. Perform instrument / equipment functionality check
7. Perform routine checks on equipment
8. Perform basic frontline maintenance
9. Collect raw material and product sample
10. Perform material loading and unloading
11. Perform material transfer in process unit operation
12. Monitor process parameters

HF3CP, HF2CP, HFXCP

Higher Nitec in Chemical Process Technology

Specialisation / Option: Petrolchemicals

6 month IA Duration

CE53005FPE-1|CE53006FPE-1

1. Handle hazardous materials
2. Perform sampling for quality control

3. Perform testing on samples
4. Perform chemical principles calculations
5. Implement materials management procedure
6. Maintain (cGMP) Good Document Practices (Paper or Electronic)
7. Maintain product quality and industry standards
8. Perform material transfer in process unit operation
9. Perform quality assurance processes
10. Perform concentrating and purifying processes
11. Perform maintenance activities for process equipment and work areas
12. Conduct line tracing of the process units
13. Perform instrumental analysis on petroleum product
14. Perform operation / monitoring on distributed control system (DCS)
15. Perform separation process units and utilities operations
16. Monitoring process condition of refining /chemical equipment
17. Perform monitoring and control operations
18. Perform start-up / shutdown operation on process unit or equipment
19. Perform preparation and maintenance of production equipment

HF3CP, HF2CP, HFXCP

Higher Nitric in Chemical Process Technology

Specialisation / Option: Biologics / Pharmaceuticals

6 month IA Duration

CE53005FPE-2|CE53006FPE-2

1. Handle hazardous materials
2. Perform sampling for quality control
3. Perform testing on samples

4. Perform chemical principles calculations
5. Implement materials management procedure
6. Maintain (cGMP) Good Document Practices (Paper or Electronic)
7. Maintain product quality and industry standards
8. Perform material transfer in process unit operation
9. Perform quality assurance processes
10. Perform concentrating and purifying processes
11. Perform maintenance activities for process equipment and work areas
12. Conduct line tracing of the process units
13. Perform sanitization process
14. Perform gowning procedure for cleanroom environment/controlled environment
15. Perform material handling for the cleanroom/controlled environment
16. Perform entry into cleanroom/controlled environment
17. Perform instrumental analysis on pharmaceutical product
18. Perform start-up / shutdown operation on unit or equipment
19. Perform operation / monitoring biopharmaceutical process

HF3CP, HF2CP, HFXCP

Higher Nitec in Chemical Process Technology

Specialisation / Option: Lab Testing

6 month IA Duration

CE53005FPE-3|CE53006FPE-3

1. Handle hazardous materials
2. Perform sampling for quality control
3. Perform testing on samples
4. Perform chemical principles calculations

5. Implement materials management procedure
6. Maintain (cGDP) Good Document Practices (Paper or Electronic)
7. Maintain product quality and industry standards
8. Perform material transfer in process unit operation
9. Perform quality assurance processes
10. Perform concentrating and purifying processes
11. Perform maintenance activities for process equipment and work areas
12. Perform cleaning of laboratory apparatus and housekeeping
13. Perform instrumental analysis on petroleum / pharmaceutical product
14. Perform media /buffer/reagents/ solvent preparation and dispensing
15. Perform sanitization process (material and testing apparatus)
16. Report GMP/test result deviation
17. Perform handling of materials in clean room / laboratory
18. Perform chromatography techniques
19. Perform spectroscopy technique