SGUNITED SKILLS PROGRAMME

Manufacturing
**Up-Skill in Chemical Technology**
Course code: GAG

**Course Overview**
This course provides you with relevant knowledge and skills in process engineering, occupational safety and health, environmental technology, productivity and quality management to support the continued growth of the chemical, petrochemical and pharmaceutical industries. It provides you with relevant, practical and applicable knowledge and skills by focusing on the process engineering principles and knowledge relevant to the operational requirements in the chemical and chemical-related industries.

**Career Opportunities**
Upon completion of the course, graduates can look forward to taking up a role as a Process Technician.

**Minimum Entry Requirement**
- Singapore Citizens and Singapore Permanent Residents, aged 21 & above
- 3 Relevant ‘O’ Level passes and 3 years of relevant working experience
- Higher Nitec and 1 year of relevant work experience
- Nitec GPA ≥3.5 and 2 years of relevant working experience
- Higher Nitec in Technology/Services and 1 year of relevant working experience
- Nitec in Technology/Services of GPA ≥3.5 with 2 years of relevant working experience
- Relevant WSQ Qualification with 3 years of relevant working experience and WSQ Workplace Literacy Statement of Attainment (SOA)(Level 6) and Workplace Numeracy Statement of Attainment (SOA)(Level 6)

**WSQ Qualification**
Applicants who do not meet the entry requirements may be considered for admission to the course based on evidence of at least 5 years of relevant working experience or supporting evidence of competency readiness. Suitable applicants who are shortlisted may have to go through an interview and/or entrance test. The Polytechnic reserves the right to shortlist and admit applicants.

**Important information for you**
With the new support scheme, you can now earn up to $1,200 per month by attending courses and equipping yourself with industry-relevant skills and knowledge.

- **View courses**
  Find all courses at: [www.tp.edu.sg/sgus](http://www.tp.edu.sg/sgus)

- **Application Period**
  From 03 July 2020
  [APPLY HERE](http://www.tp.edu.sg/sgus)

- **Training Allowance**
  - Min. 75% attendance requirement
  - Pass assessments

- **Nett Course fee**
  6-month course - $500
  12-month course - $1000
  Use your SkillsFuture Credits!

Click [here](http://www.tp.edu.sg/sgus) for FAQ.
# UP-SKILL IN CHEMICAL TECHNOLOGY | 17 AUGUST 2020 INTAKE

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<tr>
<th>Course fee: $1000.00</th>
<th>APPLY NOW</th>
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<tr>
<td>Course Duration: 12 months</td>
<td>Full day training</td>
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<td>Course commencement date: 17 August 2020</td>
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<td>Application closing date: 20 July 2020</td>
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Diploma in Applied Science (Chemical Technology)  
SkillsFuture for Digital Workplace  
Career Readiness  
Design Thinking in Action - The SEE Cycle  
Basic Business Analytics @ Work  
Industry Project/Industry Attachment

## COURSE OUTLINE

### Diploma in Applied Science (Chemical Technology)

This course provides participants with practical and applicable knowledge and skills by focusing on the process engineering principles and knowledge relevant to the operational requirements in the chemical and chemical-related industries.

**What you will learn**

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<thead>
<tr>
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<th>Certificate in Chemical Processes</th>
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<td>• Chemical Engineering Principles</td>
<td>• Process Instrumentation</td>
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<tr>
<td>• Basic Unit Operations</td>
<td>• Specialty Chemicals</td>
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<td>• Separation Processes</td>
<td>• Petrochemicals</td>
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<tr>
<th>Certificate in Chemical Plant Safety &amp; Health</th>
<th>Certificate in Chemical Plant Optimization</th>
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<tr>
<td>• Occupational Safety</td>
<td>• Chemical Plant Operations Management</td>
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<td>• Occupational Health</td>
<td>• Chemical Plant Productivity Improvement</td>
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<td>• Process Safety and Loss Prevention</td>
<td>• Chemical Plant Quality Improvement</td>
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<th>Certificate in Environmental &amp; Waste Management</th>
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<tr>
<td>• Water Treatment Technology</td>
<td>Certificate in Chemical Plant Optimization</td>
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<tr>
<td>• Air Pollution</td>
<td>• Chemical Plant Operations Management</td>
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<tr>
<td>• Solid and Hazardous Waste</td>
<td>• Chemical Plant Productivity Improvement</td>
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[BACK]
SkillsFuture for Digital Workplace
This workshop that will walk participants through the latest tools of the digital world. Through hands-on training and group activities, participants will learn how to harness these digital tools to build digital confidence.

What you will learn
- Learn how to hunt for the best deals online, in Singapore and overseas so that you do not miss the next sale. Split bills among friends without exchanging physical money, and while doing so, ensure that your passwords, credit card numbers and accounts are never compromised.
- Run a virtual garage sale and earn some money in the process. Learn the techniques of digital and social media marketing to make sure that your sale is well advertised.
- Collaborate virtually with colleagues on your next project. Manage task lists, documents and communications securely while your team works together in separate locations, even time zones.

Career Readiness
This module focuses on one’s personal and career management, as well as employability skills. It develops the understanding of one’s career profile and skills needed for career success, and provides one with the qualities to remain relevant in a changing job market environment. It emphasizes career ownership and continuous learning for lifelong employability. In addition, participants will learn how to prepare career documents such as a résumé, cover letter and be better prepared for interviews.

Design Thinking in Action - The SEE Cycle
This course will help non-designers sift through the jargon and gain insight into the cyclical and highly iterative creative thinking process. Participants will be encouraged to adopt an open and expansive mindset that will embrace productive failure, risk-taking and deep inquiry.

What you will learn
- Overview of Design Thinking
- Introduction to The SEE Cycle
- Beginning With The Right Mind-set
- Presenting The Design Challenge
- The Power Of Empathy
- Identifying the Issue
- Deconstruction and Reconstruction
- Presentation and Critique
- Generating New Ideas
- Discovering the Impossible
- Distilling the Best
- Validating Viable Options
- Presentation and Critique
- Summary and Conclusion
Basic Business Analytics @ Work
This workshop is a quick jumpstart to do basic business analytics. Participants will get to understand of the importance of Analytics, to get hands-on experience to handle data, as well as to create interactive dashboards. This workshop will also show case the potential and possibilities of doing more with advance business analytics.

What you will learn
- Introduction to Analytics
- Business Analytics Life Cycle
- Text Mining

Industry Project/Industry Attachment
This programme involves project-based learning, where you are required to be either attached to companies or work on real-life projects for companies or centres, related to your course of study. You are expected to undertake various activities discussed with and assigned by the supervisors or participating host organisations. The programme enables you to apply knowledge and skills acquired in the course of your study to address practical problems in the real workplace.