



Integrating NQC: Perspectives and Curriculum Decisions of a Science School in Temasek Polytechnic

Presented by:

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Greetings from TP!

AT A
GLANCE...



30 hectare campus

37 diplomas

1, 400 full-time staff

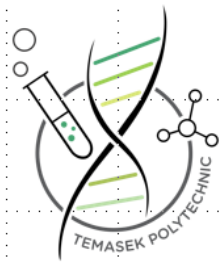
13, 000 full-time students

6 Schools:

- Applied Science
- Business
- Design
- Engineering
- Humanities & Social Sciences
- Informatics & IT

Greetings from ASC!

AT A GLANCE...



SCHOOL OF
APPLIED SCIENCE

1,500 full-time students

250 part-time students

135 full-time staff

4+2 (COI) Centres

5 Full-time Diploma Courses

- Chemical Engineering
- Food, Nutrition & Culinary Science
- Medical Biotechnology
- Pharmaceutical Science
- Veterinary Technology

9 Part-time Diploma Courses

DIPLOMA IN APPLIED SCIENCE

- Aquaculture
- Chemical Technology
- Medical Laboratory Science
- Security & Workplace Safety
- Veterinary Technology

SPECIALIST DIPLOMA

- Environment & Water Technology
- Lab Management & Instrumentation
- One Health
- Veterinary Wellness Care

Perspective: SkillsFuture Oriented

Aligning to SkillsFuture – a national movement (since 2015)



Pedagogical Impact of SkillsFuture:

- Learn for mastery;
- Learn throughout life;
- Learn for life

Perspective: Practice-based & Skills Education

A growing emphasis of PSE in Temasek Polytechnic

A **curriculum approach** that aims to develop learners to be industry ready graduates.

The curriculum is oriented towards the characteristic **practices of an occupation**.

Students are assisted and engaged in an integrated way into the **current** practices and, what they need to respond to for the **changing practices of work**.

Source:
Learning Academy @ TP

Perspective: TP Desired Student Profile

Emphasizing both domain and life skills



- Self-directed
- Resilient
- Competent

**Lifelong
Learner**

**Future-
oriented
Creator**

- Problem solver
- Digital & information literate
- Innovative & entrepreneurial

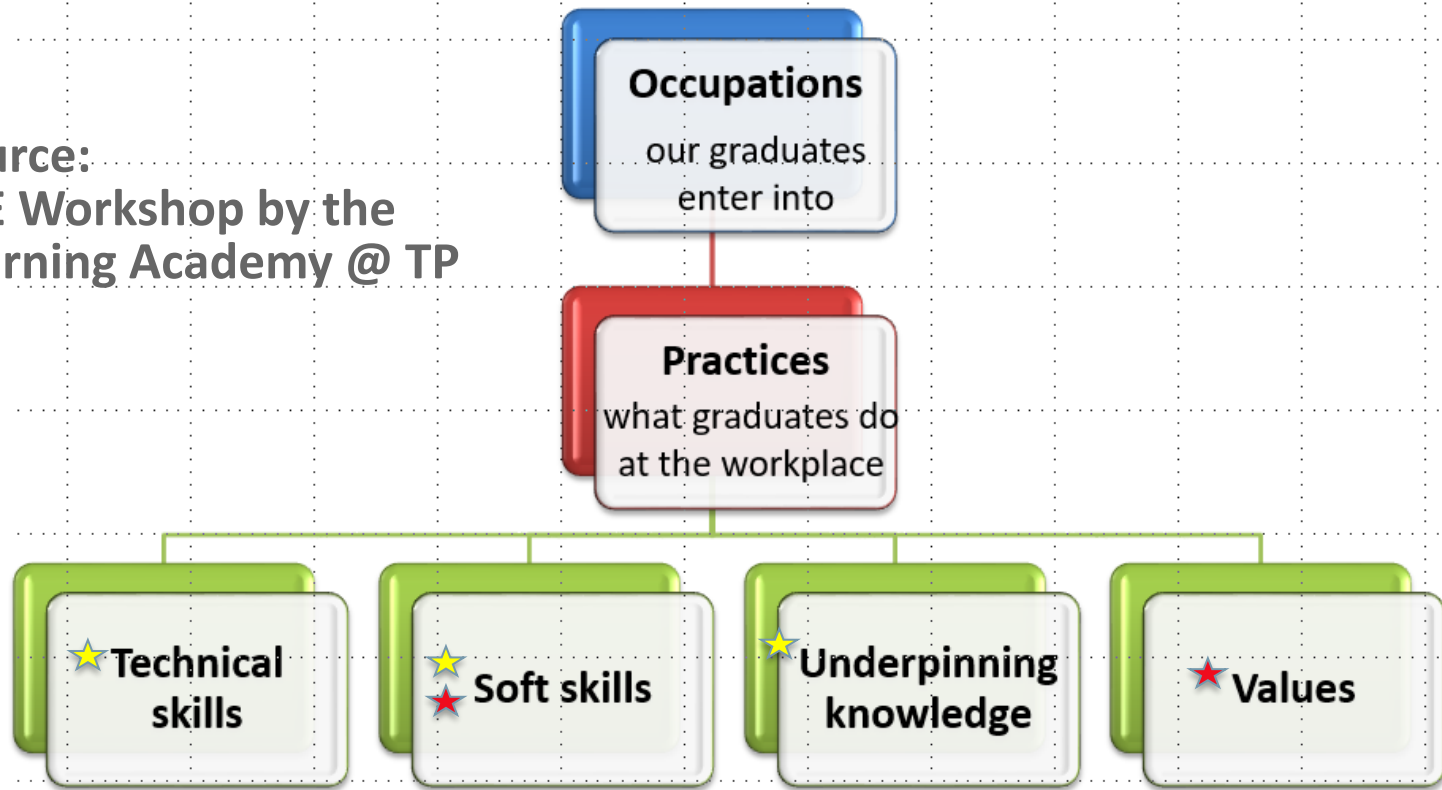
**Values-
centred
Leader**

- Rooted citizen of sound character
- Service-oriented
- Communicative & collaborative

A Curriculum Approach

Making key curriculum decisions

Source:
PSE Workshop by the
Learning Academy @ TP



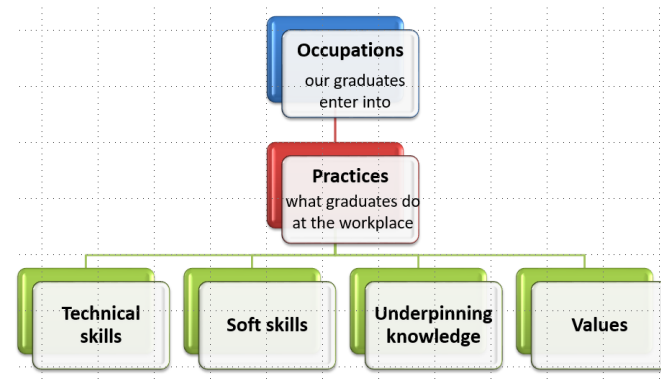
★ SkillsFuture Skills Framework

★ TP Student Profile

A Curriculum Approach

Making key curriculum decisions

“A key challenge – what to keep and what to let go?”



What do Practitioners do?	Skills		Knowledge ★	Others eg. values ★
	Technical ★	Soft ★★		
Test reliability	Calibration skills Biostatistics skills	Communication: verbal & written	Related to: Pipetting technique; Standard deviation	Integrity

★ SkillsFuture Skills Framework

★★ TP Student Profile

Source:

An example from the Diploma in
Medical Biotechnology

A Curriculum Approach

Making key curriculum decisions

“A key challenge - aligning curriculum, pedagogy & assessment”



Pharmacy Technicians Entry-to-Practice Competency Standards

With Implementation Guide for Competency Assessment

Chief Pharmacist's Office

Version 2.0: September 2020

The Skills Framework for
Healthcare > Pharmacy Support
(2019) built upon the ETP
Competency Standards

Source:

An example from the Diploma in
Pharmaceutical Science

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TP: Bringing Education to Life
& Life to Education

