

Assessing Graduate Attributes with Blue 360

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Thanks for joining us!



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Agenda

- 1. Why are we assessing graduate attributes (GAs)?
- 1. What did we do to assess GAs?
- 1. How helpful is this assessment of GAs?





Why are we assessing graduate attributes (GAs)?







Singapore Polytechnic (the oldest polytechnic in SG)



ESTABLISHED

1954



COURSES

37 Full-Time Diplomas
3 Common Entry Programmes
Polytechnic Foundation Programme



GRADUATE OUTPUT

212,694 Graduates



STUDENT ENROLMENT

492 CET Programmes

13,568 Full-time Diploma students
314 Polytechnic Foundation Programme
students

62,123 CET training places

A polytechnic offers multiple pathways to learners (teens & adults)

- Students can find jobs with a diploma
- Students can go on to university with their diploma
- Students can choose to take a part-time diploma whilst working







Are our graduates ready for work, for the world, and for life?

Are our graduate attributes aligned with global shifts?









COMMITTED TO IMPROVING THE STATE OF THE WORLD

Global Shifts (I)

'The 10 skills you need to thrive in the Fourth Industrial Revolution' (WEF, 2016)

Top 10 skills

in 2020

- 1. Complex Problem Solving
- Critical Thinking
- 3. Creativity
- 4. People Management
- Coordinating with Others
- 6. Emotional Intelligence
- 7. Judgment and Decision Making
- 8. Service Orientation
- 9. Negotiation
- 10. Cognitive Flexibility

in 2015

- 1. Complex Problem Solving
- 2. Coordinating with Others
- 3. People Management
- 4. Critical Thinking
- 5. Negotiation
- 6. Quality Control
- 7. Service Orientation
- 8. Judgment and Decision Making
- 9. Active Listening
- 10. Creativity









Global Shifts (II)

The realities of the Industry 4.0 will require IHLs to invest heavily in the development of new agile learners in future workforces by tackling improvements to education and training systems (World Economic Forum, 2018).

Assessment is embracing holistic measurements of education to tackle creative thinking, trying to find ways to assess, and have students assess flexibility in thinking (Volante et al, 2019).















Global Shifts (III)

In the EU, there is a recognition that broader skills are needed to ensure graduate employability (Volante & Ritzen, 2016).

In NZ, a 'Future Ready Graduates' website provides a '4Es of Employability' framework to help students and teachers develop transformational practices.

In Singapore, an IPS report proposed a merger of the Ministry of Education with Ministry of Manpower (Yahya, 2019). Singapore has a 'SkillsFuture Generic Skills & Competencies' framework.















An Ideal Graduate Is a Runner for Life, Not Just a Race Finisher







An Ideal Graduate Is a Runner for Life, Not Just a Race Finisher





Created by Rfourtytwo from Noun Project

- Does s/he have the stamina and motivation to complete never-ending marathons across diverse terrains?
- Does s/he tailor his/her training regime according to his/her race?
- How does s/he train? Is it sustainable?
- Does s/he help others along the way?
- Does s/he race fairly?
- Does s/he know how to plan, manage, review and evaluate his/her own races?







SP Graduate Attributes (wef July 29, 2020)

- 1. Competency & Versatility
- 2. Communication & Collaboration
- 3. Creativity, Innovation & Enterprise
- 4. Ethics & Responsible Citizenry
- 5. Self-Directedness & Personal Effectiveness
- 6. Global Mindset







How do we assess graduate attributes?













Multisource Feedback (MSF)

360-degree feedback, used widely since the 1990s amongst Fortune 500 companies, gathers feedback from supervisors, co-workers, subordinates, and other relevant third parties on one's performance in a holistic way.

From 2019, all medical interns in New Zealand will need to go through MSF at some stage during their two training years (Medical Council of NZ, n.d.). Feedback is gathered from a doctor's colleagues on their non-technical skills such as their professionalism, communication and teamwork.

FORTUNE 500



Medical Council of New Zealand

Multisource feedback







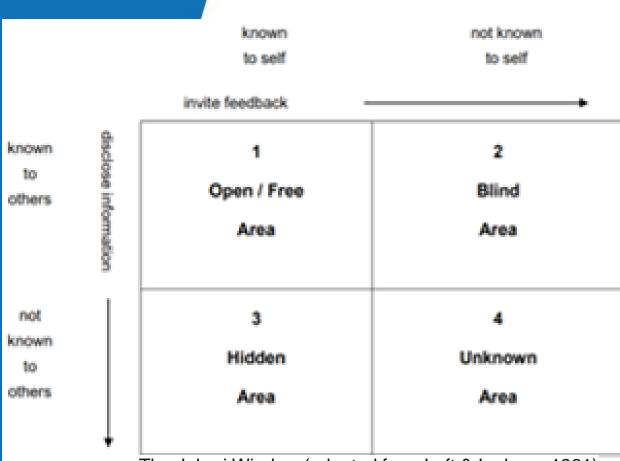




Multisource Feedback (MSF)

Students, like professionals, may benefit from gaining a clearer understanding of their personal traits and how it compares to established norms (Pappas, 2013).

The Johari Window has been used extensively as a training tool to enhance self-awareness when one examines each of the quadrants with feedback given by others. This evaluation from multiple sources could help students understand their strengths and areas of improvement in the form of MSF.



The Johari Window (adapted from Luft & Ingham, 1961)





TIMELINE OF PILOT (S1, AY19/20)













Focus group interviews after tudents receive the persona reports from Explorance Blue360

Multisource Feedback (MSF)

One such MSF platform in the industry is **Explorance's Blue 360 platform** that allows customisation of the following depending on the data needed:

- "Downward" feedback i.e., from supervisors to employees;
- "Upward" feedback i.e., employees to supervisors;
- Peer evaluation;
- Self-evaluation of one's performance

explorance.

PRODUCTS V

SOLUTIONS

CEDVICEC

OLL

360 DEGREE FEEDBACK

Flexible fully automated 360 degree feedback reviews

Power your skills assessment, competency assessment, and talent review processes with Blue and connect the dots across your talent landscape.

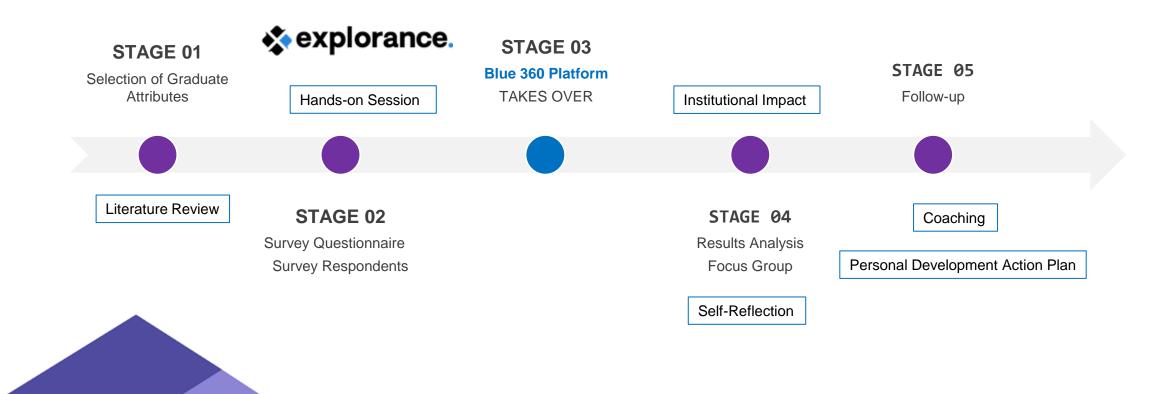
Learn how Blue can automate your 360 assessments.

Contact us





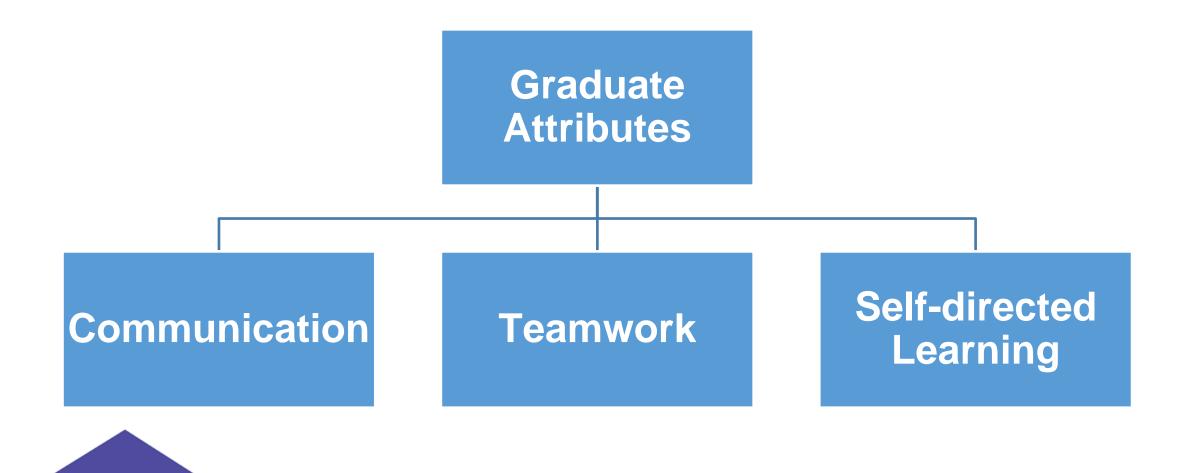
PROCESS ROADMAP



LOUISVILLE.

explorance.

bluenotes











Bluenotes **GLOBAL** 2020

VIRTUAL EXPERIENCE

	COMMUNICATION	1	2	3
<u> </u>		- Seldom	Sometimes	
Q1	I'm able to tailor my message according to the purpose, audience and context (PAC) accurately.			Always
Q2	I'm able to use appropriate verbal (e.g. tone and word choice) and non-verbal (body language) cues to complement the exchange of ideas skilfully.	Seldom	Sometimes	Always
Q3	I'm able to articulate views both in writing and speaking using Standard English clearly and persuasively.	Seldom	Sometimes	Always
	TEAMWORK	1	2	3
Q4	I'm able to solicit, listen, share and adopt ideas collaboratively.	Seldom	Sometimes	Always
Q5	I'm able to make important contribution that improves my team's work.	Seldom	Sometimes	Always
Q6	I'm able to evaluate my team's effectiveness (by giving constructive feedback, making sure that the team is making appropriate progress etc.) proactively to achieve the team's goals.	Seldom	Sometimes	Always
Q7	I care that my team does excellent work, even if there is no additional reward.	Seldom	Sometimes	Always
Q8	I'm able to resolve differences and/or conflicts tactfully in a timely manner.	Seldom	Sometimes	Always
	SELF-DIRECTED LEARNING	1	2	3
Q9	I believe that failures and challenges help me to grow.	Seldom	Sometimes	Always
Q10	I believe that I am able to do well for this module if I put in effort and do not give up trying.	Do not believe	Somewhat believe T	otally believe
Q11	I believe that success of others is an opportunity to keep learning.	Do not believe	Somewhat believe T	otally believe
Q12	I take the responsibility to set my learning goals and identify my learning gaps.	Unable to	Somewhat able to	Able to
Q13	I take the responsibility to explore alternative learning strategies to achieve my learning goals based on self-reflection and feedback from others.	Unable to	Somewhat able to	Able to
Q14	I take the responsibility to extend learning by doing research and applying the learning within and/or beyond school curriculum (formal and informal contexts).	Unable to	Somewhat able to	Able to

Survey Respondents

102 students

5 classes of various disciplines

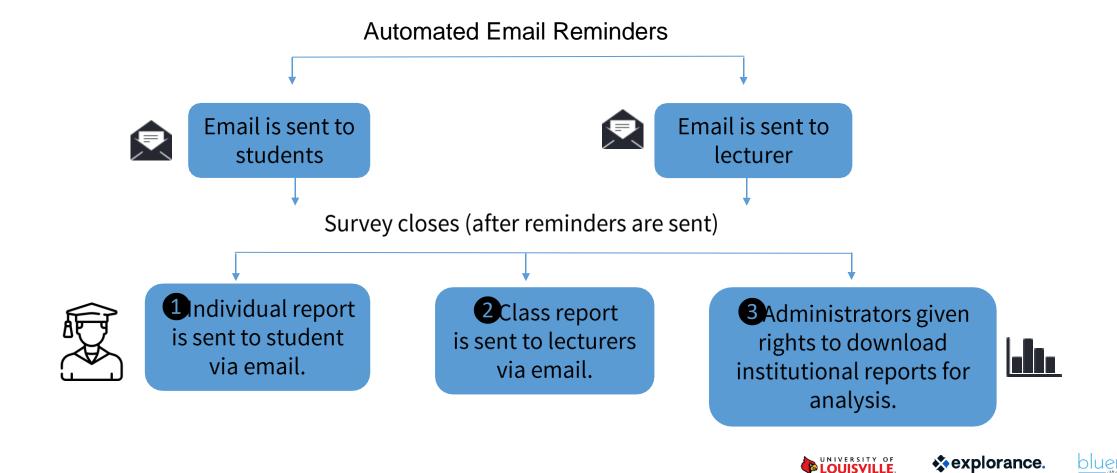
4 lecturers







User-friendly Platform



Automated Data Collection

- Comparative gap analysis
 - o student self-rating vis-à-vis lecturer rating per survey question
 - aggregate student self-rating vis-à-vis aggregate lecturer rating and institution rating
- Strengths and areas of improvement





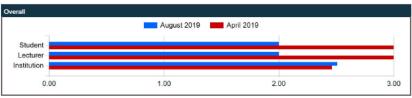
Bluenotes GLOBAL 2020 VIRTUAL EXPERIENCE

Self Directed Learning

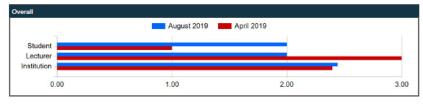
Has the belief that failures and challenges help an individual grow



Has the belief that they will be able to do well for this module if they put in the effort and do not give up trying



Has the belief that success of others is an opportunity to keep learning



Takes responsibility by setting learning goals and identifying learning gaps;



Comparative Gap Analysis

Self-ratings vs Lecturer Ratings (Question Per Se)







bn

Seldom Sometimes Always Has the belief that failures and challenges help an individual grow - Mean: 2.62 Has the belief that they will be able to do well for this module if they put in the effort and do.. Has the belief that success of others is an opportunity to keep learning - Mean: 2.47 Takes responsibility by setting learning goals and identifying learning gaps; - Mean: 2.39 Takes responsibility by exploring alternative learning strategies to achieve learning goals based on self-reflection... Takes responsibility extending learning by doing research and applying the learning within and/or beyond school curriculum...

80%

100%

60%

40%

Bluenotes **GLOBAL** 2020

VIRTUAL EXPERIENCE

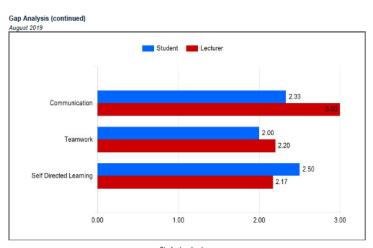
Lecturer Ratings (Breakdown by Question)

LOUISVILLE,





Bluenotes **GLOBAL** 2020 VIRTUAL EXPERIENCE



Student vs Lecturer				
Ran	nk Competency	Gap		
1	Communication	-0.67		
2	Teamwork	-0.20		
3	Self Directed Learning	0.33		

Comparative Gap Analysis

Self-ratings vis-à-vis Lecturer Ratings







Behavioural Ranking

Strengths and Improvements

Is able to solicit, listen, share and adopt ideas collaboratively

2 Is able to make important contribution that improves team's work

St	rengths		August 2019	April 2019
1	Is able to tailor message according to the purpose, audience, and context (PAC) accurately	Communication	3.00	3.00
2	Has the belief that failures and challenges help an individual grow	Self Directed Learning	3.00	3.00
Improvements				April 2019

Teamwork

2.00 1.00

2.00 1.00

Strengths & Improvements







→ Student → Lecturer 3.00 2.61 2.48 2.45 2.46 2.00 1.00 0.00 Communication Self Directed Teamwork Learning

Comparative Gap Analysis

Aggregate Ratings Summary









Bluenotes **GLOBAL** 2020 VIRTUAL EXPERIENCE

Self Directed Learning				
Has the belief that failures and challen	ges help an individual grow			
Class	Mean	Seldom	Sometimes	Always
DASE_FT_2A_02	2.32	4.55%	59.09%	36.36%
DCHE_FT_1A_02	2.58	0.00%	42.11%	57.89%
DHRMP_FT_3A_23	2.91	0.00%	8.70%	91.30%
GD_SIP_SPOT_304	2.35	5.00%	55.00%	40.00%
JP02_FT_1A_22	1.94	11.11%	83.33%	5.56%
Has the belief that they will be able to d	lo well for this module if they p	out in the effort and do	not give up trying	
Class	Mean	Seldom	Sometimes	Always
DASE_FT_2A_02	2.45	13.64%	27.27%	59.09%
DCHE_FT_1A_02	2.58	0.00%	42.11%	57.89%
DHRMP_FT_3A_23	2.74	4.35%	17.39%	78.26%
GD_SIP_SPOT_304	2.50	0.00%	50.00%	50.00%
JP02_FT_1A_22	2.00	11.11%	77.78%	11.11%
Has the belief that success of others is	an opportunity to keep learn	ing		
Class	Mean	Seldom	Sometimes	Always
DASE_FT_2A_02	2.23	4.55%	68.18%	27.27%
DCHE FT_1A_02	2.58	0.00%	42.11%	57.89%
DHRMP_FT_3A_23	2.78	0.00%	21.74%	78.26%
GD_SIP_SPOT_304	2.50	0.00%	50.00%	50.00%
JP02_FT_1A_22	1.94	11.11%	83.33%	5.56%
Takes responsibility by setting learning	goals and identifying learning	g gaps:		
Class	Mean	Seldom	Sometimes	Always
DASE_FT_2A_02	2.50	9.09%	31.82%	59.09%
DCHE_FT_1A_02	2.00	0.00%	100.00%	0.00%
DHRMP_FT_3A_23	2.70	0.00%	30.43%	69.57%
GD_SIP_SPOT_304	2.50	5.00%	40.00%	55.00%
JP02_FT_1A_22	2.06	22.22%	50.00%	27.78%
Takes responsibility by exploring altern	native learning strategies to a	chieve learning goals b	ased on self-reflection and	feedback from
others;				
Class	Mean	Seldom	Sometimes	Always
DASE_FT_2A_02	2.09	13.64%	63.64%	22.73%
DCHE_FT_1A_02	2.05	0.00%	94.74%	5.26%
DHRMP_FT_3A_23	2.70	0.00%	30.43%	69.57%
GD_SIP_SPOT_304	2.50	5.00%	40.00%	55.00%
JP02_FT_1A_22	2.06	27.78%	38.89%	33.33%
Takes responsibility extending learning	by doing research and apply	ying the learning within	and/or beyond school curri	culum (formal
and informal contexts)				
Class	Mean	Seldom	Sometimes	Always
DASE_FT_2A_02	1.86	13.64%	86.36%	0.00%
DCHE_FT_1A_02	2.00	0.00%	100.00%	0.00%
DHRMP_FT_3A_23	2.70	0.00%	30.43%	69.57%
GD_SIP_SPOT_304	2.50	5.00%	40.00%	55.00%
JP02_FT_1A_22	2.06	22.22%	50.00%	27.78%

Comparative Gap Analysis

Lecturer Ratings (Question Per Se)
Breakdown by Class

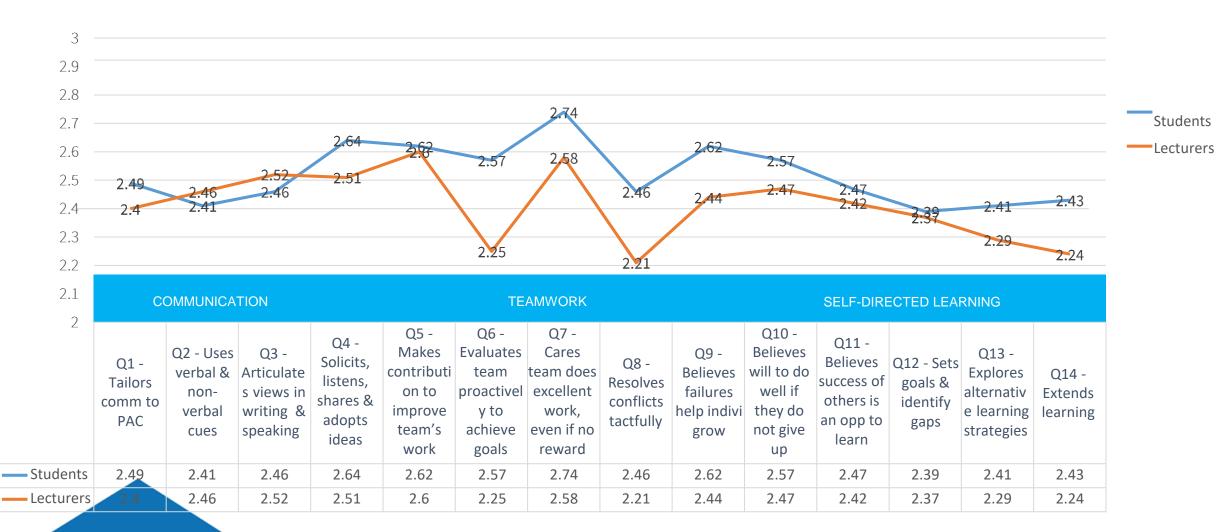
















Is MSF Useful for Our Students?

"If you don't have this report, how will you know where to work on? With this, I know where to start improving myself and it'll be beneficial for me."

"This tracks your growth and allows you to see how you're growing and lets you identify areas that you can focus your growth on."

"It highlights some of the weaknesses that I thought I had a strength in. It hurts that my lecturer rated me lower than I rated myself."

"I feel that I've worked very hard, but my lecturer rated me '2', so maybe I should work harder."

"Yes, I can improve on myself after I know my weaknesses."

"I want someone I trust and know me to process the report with me."











Our Takeaways

Created by Andrew McKinley from Noun Project

- 1. A runner's true test is how s/he runs his/her marathon. The challenge is to develop effective tools to assess his/her run, such as giving him/her multisource feedback
- 1. We need buy-in from staff and students for a successful implementation of such multisource feedback surveys
- 1. Multisource feedback reports can be used as a developmental tool to heighten students' self-awareness, but they must be coached to know how to use such reports effectively





Created by Andrew McKinley from Noun Project

Q&A





