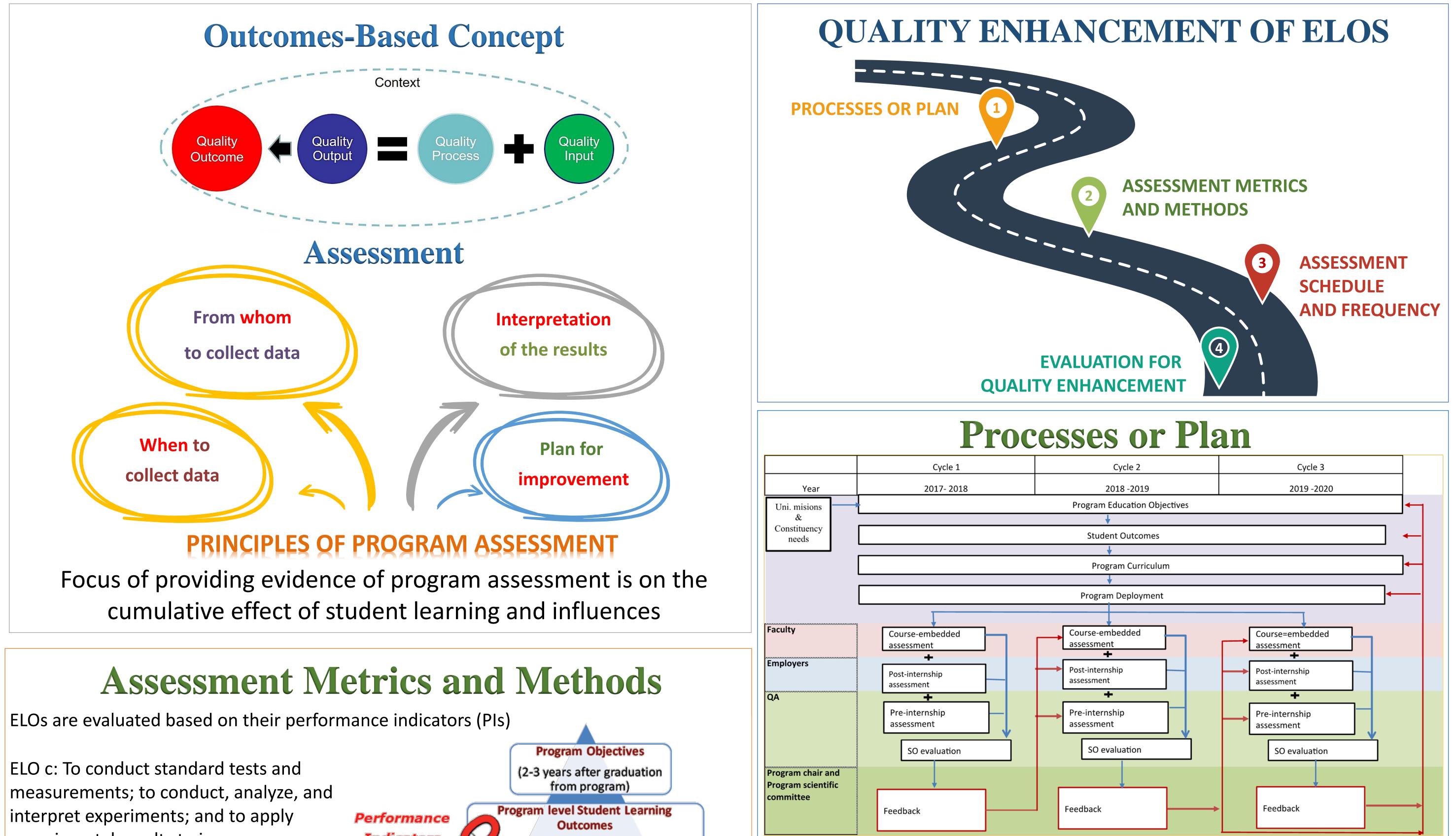


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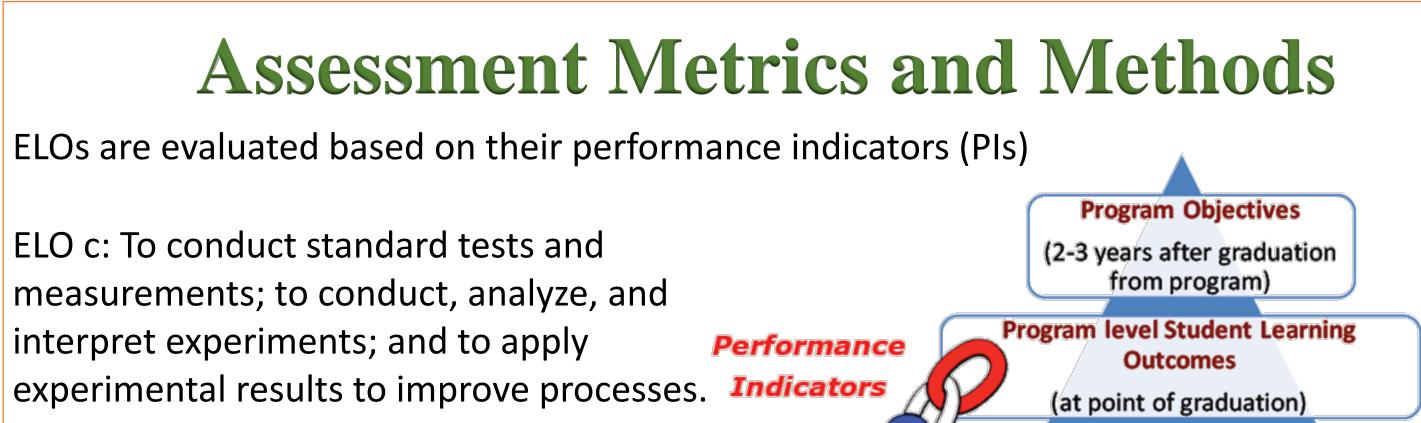


Figure describes a 1-year cycle program assessment and evaluation plan during

- 1. PI1: Test/Verify the operation of the machine based on simulation software.
- 2. PI2: Use the measuring instruments to measure the sizes/ dimensions, hardness, roughness and mechanical properties of the parts/ elements

All the Courses That Make Up the Program **Course** Learning Outcomes (CLOs) for each course

Pls - Specific, measurable statements identifying student performance(s) required to meet the outcome; confirmable through evidence.

In each cycle, the ELOs are evaluated based on the assessment tools, where F represents all Pls and P describes some Pls of the corresponding ELO that can be assessed by the corresponding tool. The results assessed on different instruments will be used for comparison and consideration when deciding on appropriate improvements.

ELOs Assessment Tools	а	b	С	d	е	f	g	h	i	j	k
Course-embedded assessment	F	F	F	F	F	F	F	F	F	F	F
Pre-internship assessment				Р							
Post-internship assessment		Р	F	Р	F	Р	Р	Р	Р	F	Р

+ Course-embedded assessment

This assessment method is used to measure the CLOs of courses that serve to assess to PIs of ELOs in the program. As CLOs support for PIs at different levels (I, R, E), PI will be mainly assessed on some courses whose CLOs are at level E. Some courses corresponding to I and R levels are also assessed in order to finding out the cause when the attainment of the corresponding performance indicator does not reach the expected degree.

three years from 2017 to 2020. The QA team processes data collected from lecturers through course-embedded assessments; from the enterprises through the postinternship assessment; and from pre-internship assessment of students. The assessment results of PIs in each cycle are reviewed and decided to improve on assessment methods , teaching methodology, curriculum,... by the program Scientific Committee and Program Chair. The improvement on the assessment tools is applied after the first cycle. The assessment results of the next cycle will be processed and used to improve the curriculum, teaching methods and assessment.

Assessment Schedule and Frequency

tandard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes.

PIs	Educational strategies	Method (s) of Assessment	Where E data	are c	I,R data	Length of E assessment	Year of E data collection	
			are collected	S1 of cycle	S2 of cycle	cycle (yrs)		
PI1: Verify the operation	03414;		03523(2)	03414				
of the	03484				03484	one year	2017, 2018, 2019	
machine using the	03523							
simulation softwares.	03507	Survey	Post-internship Assessment			June and December	2017, 2018, 2019	
PI2 : Use the measuring	03417		03417(1)				2017 2010 2010	
instruments to measure	03416		03416(1)			one year	2017, 2018, 2019	
the sizes/ dimensions,	03507	Survey	Post-internship Assessment			June and December	2017, 2018, 2019	

Evaluation for Improvement SO(c). An ability to conduct standa

Performance Indicator

Achieve # Below Total # % achieve Target % Target Met

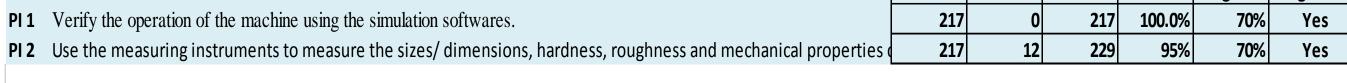
+ Post-internship assessment

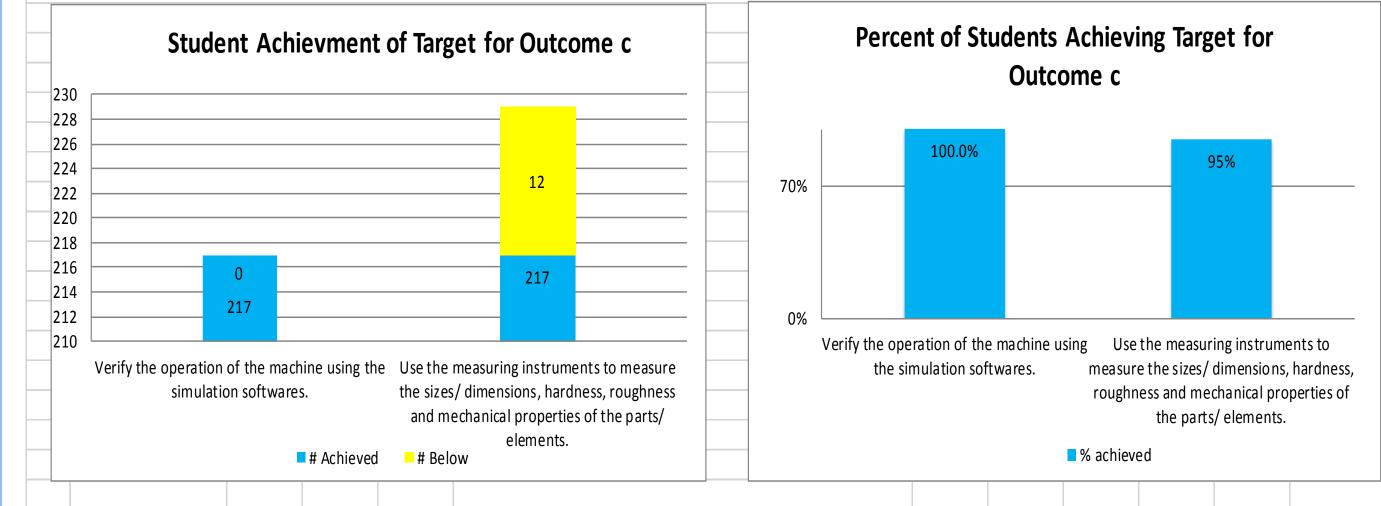
After students complete the internship attachment, we send a questionnaire to assess some performance indicators to the enterprises hosting the internship. This questionnaire covers the rubrics of the corresponding performance indicators to ensure the reliability of the assessment tool. Unlike other assessment tools, this tool is conducted by external assessors who are the instructors supervising the student's internship in the enterprise. The results of this tool, therefore, are also used to verify those of the above tools.

To reduce the instructors' workload when assessing our students, we limit the number of questions in each questionnaire to just around 10 questions and apply different questionnaires to different enterprises as long as more than 30 students are assessed per questionnaire to ensure the statistical reliability.

+ Pre-internship assessment

Before students come to the enterprises for the internship attachment, these students must attend a test of some necessary knowledge and skills. Through this test, some PIs of SO will be assessed and evaluated objectively.





- Students perform better when they get feedback on their performance to know their areas of strength and weakness and what they need to do to improve.
- Students perform better when they know the relevance of what they are learning to their future careers and personal lives.