

Assessment Basics for Student Learning Outcomes

Office of Assessment and Institutional Effectiveness

09.21.21

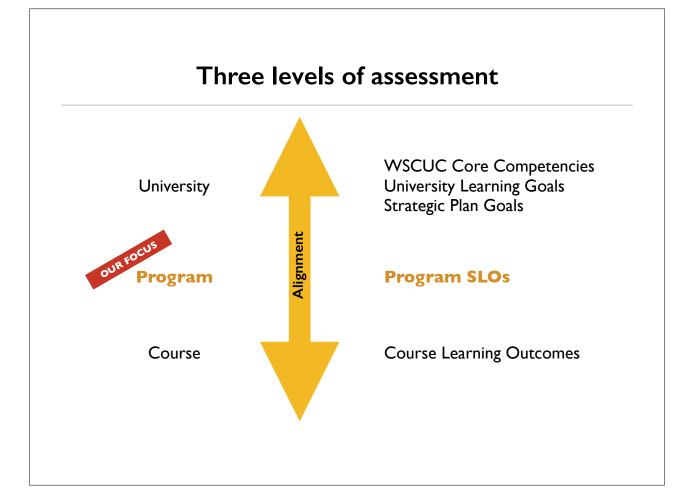


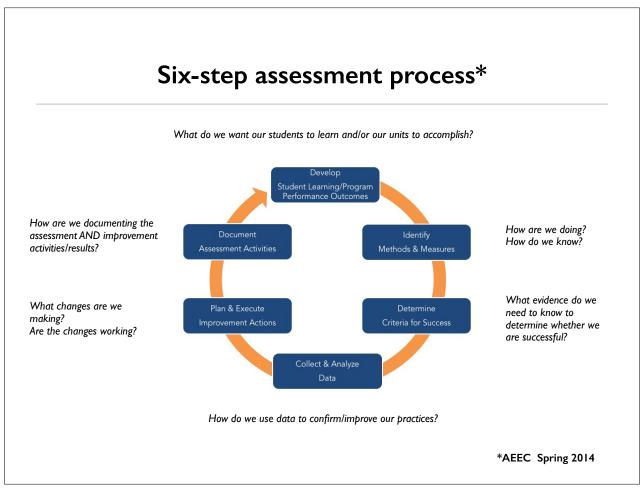
What is not assessment

- Assessment ≠ Accreditation
 - Accreditation requires assessment, but is not the primary purpose for assessment
- Assessment ≠ Evaluation
 - Assessment is faculty-controlled, reflective, and aimed to <u>increase (not judge)</u> quality of teaching and learning
- Assessment ≠ Lots of extra work
 - Assessment can be done with existing, embedded measures that do not require a new set-up

Assessment for improvement

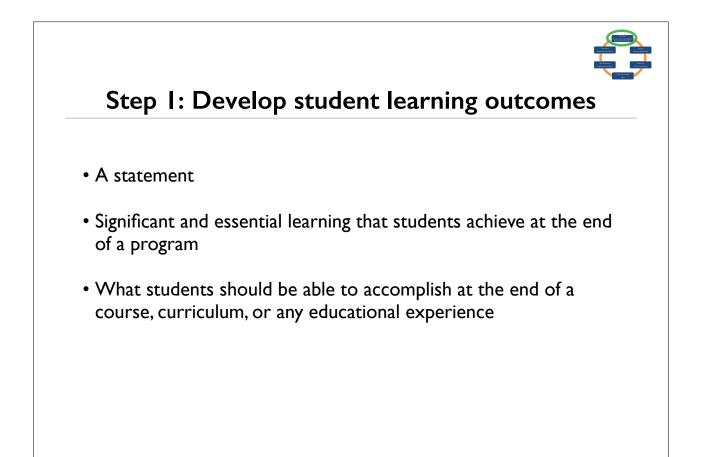
- Assessment = Getting evidence-based answers to the questions that matter to us
 - "Without data, you are just another person with an opinion." (W. Edwards Deming)
- Assessment = Improving teaching and learning
 - Assessment helps identify areas for improvement in student learning, and ways to improve them
- Assessment = Demonstrating effectiveness
 - Assessment showcases the positive impact of our hard work on student learning and success

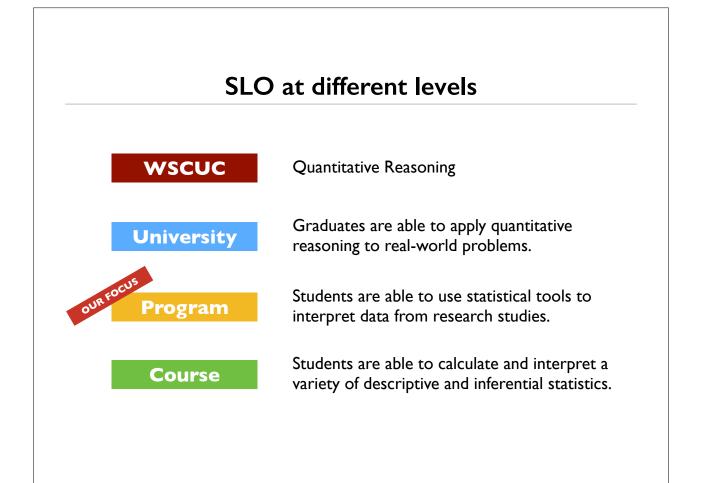




Nuventive. Improv	е		AA - Assessment and Instituti	onal Effectiveness	v	🔺 🔍 📤 Welcome, sswarat
i 🗆 🕇	n 🏫	A - Assessment and Institutional Effectivene	ess > Home			
Home	Unit	Planning Summary				
Admin Unit 🗸 🗸		Outcomes (S	tep 1)	Methods and Measures (Step 2)	Data Collection and Analysis (Step 4)	Improvement Actions (Step 5)
Unit Assessment 🗸 🗸	~	PO-01: Sustainable university-wide as	ssessment process	1	1	1
Mapping v	¥	PO-02: Assessment training and profe	essional development	1	1	1
Reports v	~	PO-03: External compliance support		1	1	1
Documents v	~	PO-04: Analytical Studies support		1	1	1
(ii)	~	PO-05: Institutional Research		1	1	1
	~	PO-06: Quality Assurance		1	1	1
	~	PO-07: Data Governance		1	0	0
	~	PO-08: Assessment and QA dissemina	ition	1	1	1
		ssment ma mentation	nagement	t system (AMS) a	wailable year-round	for

• Assessment liaisons review to provide feedback









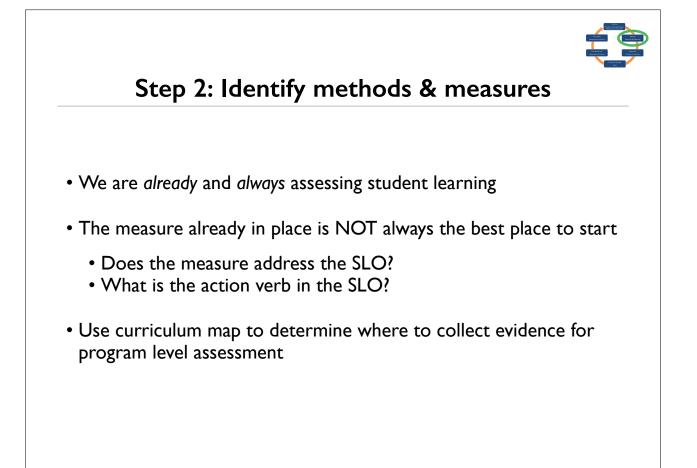
Common issues with SLOs

Criteria for good SLOs	Example SLO needing improvement
Learner-centered, not instructor-centered	Students will be provided with at least 2 internships to apply the skills in the field.
Simple language	Students demonstrate thorough and competent understanding of original texts, which is reflected in sound arguments to support assertions that are supported by careful presentation of evidence and include thoughtfully constructed refutations of the opposing view.
Specific, clear and concise	Students acquire the accumulated essential knowledge so that they can apply the knowledge to clinical issues in graduate school or in their work settings.
Demonstrable and measurable	Students demonstrate leadership skills by organizing and implementing projects in the community.
Discrete (no "double- barrel" statements)	Students understand and apply critical race theory and research methods demonstrated through independent research using standard English grammar and coherent written organization.
Manageable (more is not better)	5-7 SLOs (recommended)

Use curriculum mapping to ensure SLO and curriculum alignment

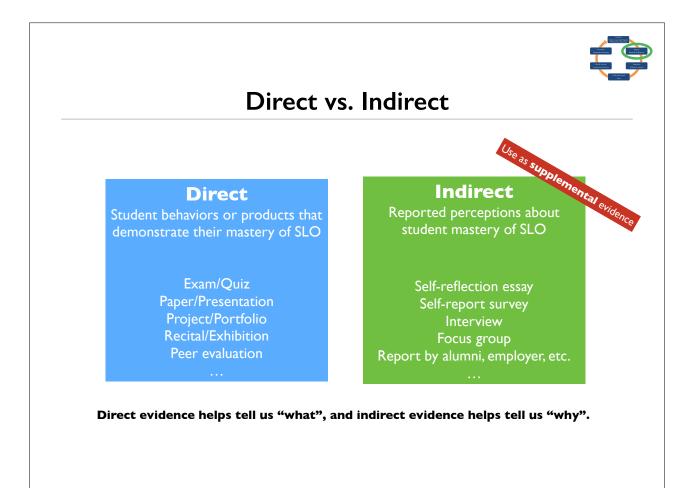
Course	SLOI	SLO2	SLO3	SLO4	SLO5	
100	Introduced		Introduced			• Does a cours
101		Introduced			Introduced	address any o the SLOs?
200	Developed			Introduced		• Is the SLO
230			Developed			addressed by the courses?
300	Developed	Developed			Developed	• Is there
350		Mastered			Mastered	sufficient scaffolding?
401	Mastered		Developed; Mastered			1

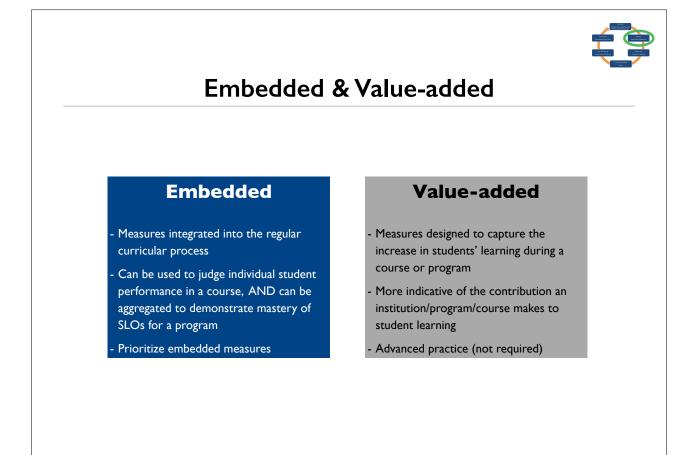
Case Study: Step I

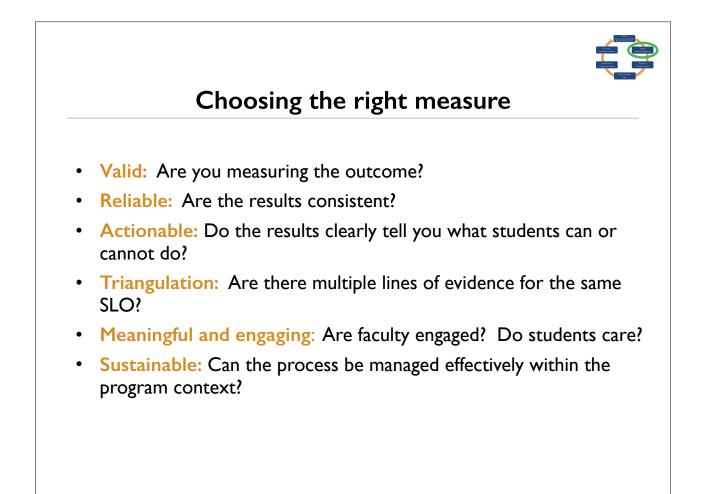


Use curriculum mapping to determine where to collect assessment evidence

Course	SLOI	SLO2	SLO3	SLO4	SLO5	
100	Introduced		Introduced			• Program assessment is
101		Introduced			Introduced	focused on student
200	Developed			Introduced		competency "near or at
230			Developed			graduation"
300	Developed	Developed			Developed	Focus on courses where
350		Mastered			Mastered	SLOs are "mastered"
401	Mastered		Developed; Mastered			









Common issues with measures (part I)

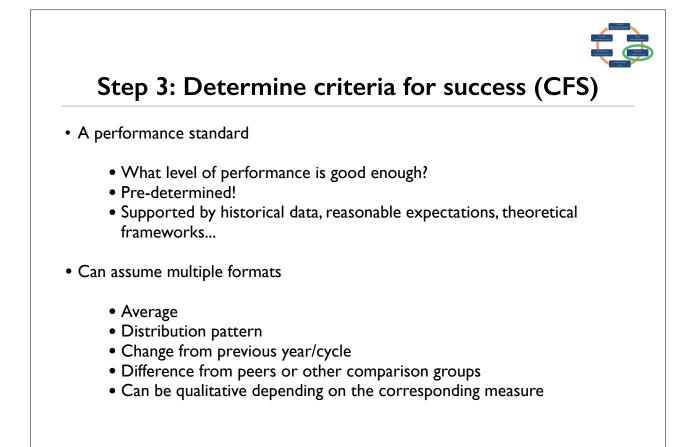
Critieria for good measures	Example measures needing improvement
Valid	 To measure students' "global competency that allows students to conduct business with people in different global regions", students are asked to answer a final exam question in an elective not required for majors.
	2. To measure students' competency in performance, faculty track the length of time taken to achieve the next level of performance.
Reliable	 To measure students' professional skills in the clinical settings, the internship site supervisors are asked to provide a brief holistic evaluation of students' professional skills.
	2. To measure students' written communication skills using a culmination exam while the exam is going through major revision.
Actionable	 To measure students' understanding of major theoretical development milestones in the discipline, the faculty use a rubric to score student assignment. The rubric rates students' knowledge using a 5-point scale from "poor" to "excellent" without detailed descriptions.
	 To measure students' application of key concepts and skills relevant to the discipline, an objective content test is administered in a 400 level course. The total score is used to determine student competency.



Common issues with measures (part 2)

Critieria for good measures	Example measures needing improvement
Triangulation	 To measure students' ability to collaborate with others, a survey is administered to the students asking whether they worked with others in the course, and if so, how well the group worked.
	 To measure students' critical thinking ability, multiple measures are used including a short- answer assignment, project customer evaluation, and student project self-reflection. They yield different results, but no connections are drawn.
Meaningful and engaging	 To measure students' problem solving ability, students are invited to take a 2hr standardized test that is not part of the course or program. Students receive \$50 for participation.
Sustainable	 The program coordinator asks every course that is aligned with a program SLO to submit assessment data every semester to capture all relevant data. The coordinator will then go through all the data to determine whether the SLO is met.
	 A program collects 50 student written samples from 200, 300 and 400 courses every year. The samples are scored by a committee of faculty in the summer.

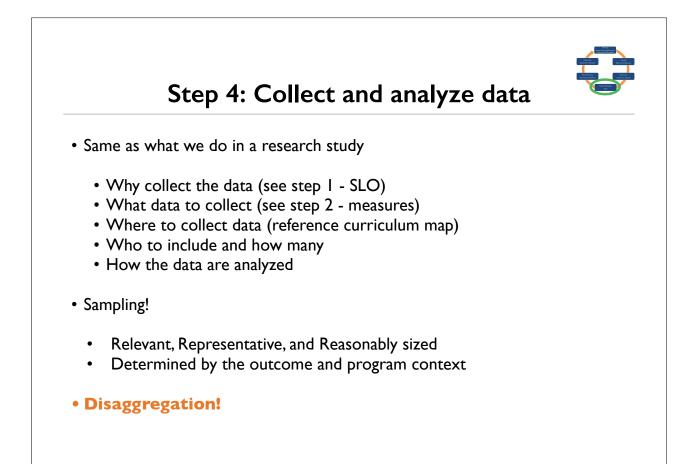
Case Study: Step 2





Common issues with CFS

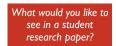
- Some measures lack CFS
 - Every measure needs a corresponding CFS
- Focus on average and ignore score distribution
 - · Average can be easily skewed
 - Distribution is often more telling, and helps pinpoint areas for improvement
- Inappropriate CFS
 - Too high (e.g. 100% students score in the "excellent" category on all of the rubric criteria.)
 - Too low (e.g. Students score at the national average level.)
 - Ceiling effect (e.g. Client evaluation rating improves by 10% every year.)
 - Use average or "rate" when sample size is small (e.g. 75% students receive a score of 80% or higher, when the cohort size is typically less than 10.)



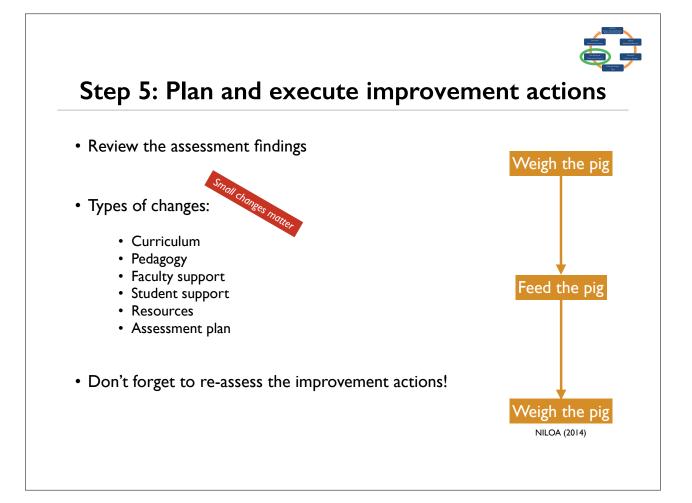
Common issues with data collection and analysis

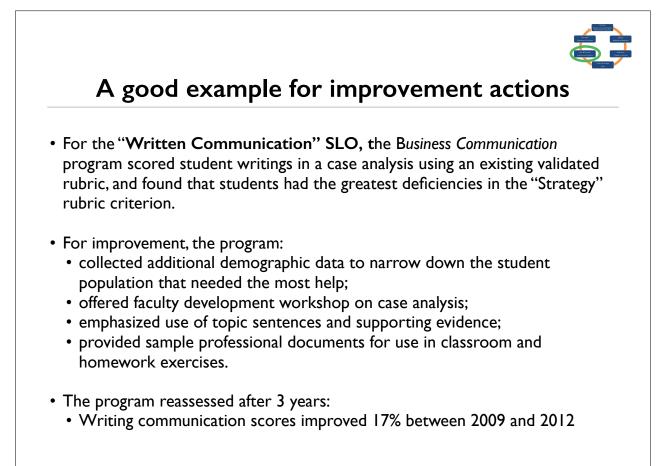


- No data
 - Expectation: I SLO per year
 - Special report needed if no data
- Misalignment between steps
 - Data collected do not match measures
 - Data analysis does not reference or match CFS
- · Insufficient description of data collection or analysis
 - Where did the data come from
 - Who and how many students were included
 - How were the data collected and analyzed
 - How did the data compare with CFS
 - · How did the data compare to prior years
- No reflection on how data relate to practice
- No connection between data from multiple sources



Case Study: Step 3 & 4







Common issues with improvement actions

- Improvement actions have no connection to the data
- Improvement actions are vague
 - "The curriculum committee will review the results and determine the next steps."
 - "We will continue to monitor student performance and make changes to the curriculum."
- Improvement actions do not have any follow-ups
 - Are the improvement actions from previous year/cycle implemented?
 - What is the impact of the improvement actions from the previous year/ cycle?
- Overemphasis on methodology (e.g. always focus on the measures)

luventive. Improve		itutional Effectiveness	•	A 0 Swarat
ne internet	AA - Assessment and Institutional Effectiveness > Home			
	Unit Planning Summary Outcomes (Step 1)	Methods and Measures (Step 2)	Data Collection and Analysis (Step 4)	Improvement Actions (Step 5)
t Assessment 🗸	PO-01: Sustainable university-wide assessment process	metrious and measures (step 2)	Data Conection and Analysis (Step 4)	1
	PO-02: Assessment training and professional development	1	1	1
oping ~	 PO-03: External compliance support 	1	1	1
orts v	PO-04: Analytical Studies support	1	1	1
uments ~	PO-05: Institutional Research	1	1	1
	PO-06: Quality Assurance	1	1	1
	✓ PO-07: Data Governance	1	0	0
	PO-08: Assessment and QA dissemination	1	1	1
	✓ PO-07: Data Governance	1	0	0

Case Study: Step 5 & 6

Don't do assessment only to meet administrative requirements



Blurry McBronzeFace @apollodorus9

"At the end of this course, students will be able to..."

SOCRATES: "...know that they know nothing."

EDUCATION ADMINISTRATOR: I'm sorry, but that is not a measurable learning outcome. 8/22/18, 2:36 PM

Do assessment to improve student learning

"Wisdom is needed throughout the entire process of assessment for all levels of students - from the articulation of outcomes statements to the selection and application of assessment measures to the everdifficult loop-closing activities for improving student learning."

- Timothy Reese Cain

data@fullerton.edu

www.fullerton.edu/data