

Assessment Refresher for Undergraduate Programs

Office of Assessment and Institutional Effectiveness

10.06.20



"We got 10 years from WSCUC, so why are we still talking about assessment?"

"What guarantee do I have that you will not use assessment data against me?"

"We are in the middle of a global pandemic. Stop adding more to our workload!"

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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







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∦ Home				
👖 Admin Unit 🗸 🗸	Unit Planning Summary Outcomes (Step 1)	Methods and Measures (Step 2)	Data Collection and Analysis (Step 4)	Improvement Actions (Step 5)
🖗 Unit Assessment 🗸 🗸	✓ PO-01: Sustainable university-wide assessme	nt process 1	1	1
Mapping v	✓ PO-02: Assessment training and professional	development 1	1	1
Perorte v	✓ PO-03: External compliance support	1	1	1
	✓ PO-04: Analytical Studies support	1	1	1
Documents V	✓ 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
• Ass	essment mana	gement system (AMS) available year-round	for

• Assessment liaisons review to provide feedback



Step I: Develop student learning outcomes

- A statement
- Significant and essential learning that students achieve at the end of a program
- What students should be able to accomplish at the end of a course, curriculum, or any educational experience







Start with a good SLO

Knowledge

Facts Concepts Theories Principles

Skill

Critical thinking Communication Teamwork Quantitative reasoning

Attitude

Civic engagement Cultural competency Professionalism Life-long learning

- Learner-centered, not instructor-centered
- Simple language
- Specific, clear and concise
- Demonstrable and measurable
- Discrete (no "double-barrel" statements)
- Manageable (more is not better)

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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



Step 2: Identify methods & measures

• We are already and always assessing student learning

- The measure already in place is NOT always the best place to start
 - Does the measure address the SLO?
 - What is the action verb in the SLO?
- Use curriculum map to determine where to collect evidence for program level assessment

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Curriculum mapping

Course	SLOI	SLO2	SLO3	SLO4	SLO5
100	Introduced		Introduced		
101		Introduced			Introduced
200	Developed			Introduced	
230			Developed		
300	Developed	Developed			Developed
350		Mastered			Mastered
401	Mastered		Developed; Mastered		







Choosing the right measure

- Valid: Are you measuring the outcome?
- Reliable: Are the results consistent?
- Actionable: Do the results clearly tell you what students can or cannot do?
- Triangulation: Are there multiple lines of evidence for the same SLO?
- Meaningful and engaging: Are faculty engaged? Do students care?
- Sustainable: Can the process be managed effectively within the program context?

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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	1. 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	1. 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	1. 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.

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Step 3: Determine criteria for success (CFS)

- A performance standard
 - What level of performance is good enough?
 - Pre-determined!
 - Supported by historical data, reasonable expectations, theoretical frameworks...
- Can assume multiple formats
 - Average
 - Distribution pattern
 - Change from previous year/cycle
 - Difference from peers or other comparison groups
 - Can be qualitative depending on the corresponding measure



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.)

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Common issues with data collection and analysis



- No data
 - Expectation: I SLO per year
- 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







A good example for improvement actions

- For the "Written Communication" SLO, the Business Communication program scored student writings in a case analysis using an existing validated rubric, and found that students had the greatest deficiencies in the "Strategy" rubric criterion.
- For improvement, the program:
 - collected additional demographic data to narrow down the student population that needed the most help;
 - offered faculty development workshop on case analysis;
 - emphasized use of topic sentences and supporting evidence;
 - provided sample professional documents for use in classroom and homework exercises.
- The program reassessed after 3 years:
 - Writing communication scores improved 17% between 2009 and 2012

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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)





Build a faculty community through assessment

"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



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