Assurance of Student Learning Report					
2020-2021					
College of Health and Human Services	Department of Public Health				
Occupational Safety and Health Certificate (1705)					
Edrisa Sanyang					

Use this page subsequent pa	to list learning outcomes, measurements, and summarize results for your program. Detailed information 1 ges	nust be com	pleted in the
	ting Outcome 1: Identify and compile relevant information sources to assess an occupational safety and he	alth probler	n.
Instrument 1		<u> </u>	
Instrument 2			
Instrument 3			
Based on your	r results, check whether the program met the goal Student Learning Outcome 1.	🖂 Met	Not Met
Student Learn	ing Outcome 2: Interpret and communicate occupational safety and health regulations.	·	
Instrument 1	Direct: Analysis and discussion of an occupational safety and health regulations		
Instrument 2			
Instrument 3			
Based on your	r results, check whether the program met the goal Student Learning Outcome 2.	🖂 Met	Not Met
Student Learn	ing Outcome 3: Apply appropriate field methods to collect occupational safety and health data.	·	
Instrument 1	Direct: Comprehensive lab report.		
Instrument 2			
Instrument 3			
Based on your	r results, check whether the program met the goal Student Learning Outcome 3.	Met	Not Met
Program Sum	mary (Briefly summarize the action and follow up items from your detailed responses on subsequent pa	ages.)	

This assessment indicates that the mean scores for all SLOs meets program success targets. Adjustments in course offerings have helped strengthen program goals and outcomes. The program is preparing students for jobs in the field, as indicated by a greater than 95% employment rate in the field. This includes the B.S. in EOHS, as well. Changes will be made to core course requirements in Spring 2021 to meet the current accreditation standards for National Environmental Health Science and Protection Accreditation Council. This includes demonstrated assessment of SLOs in the overarching competencies of communication, assessment, and management. Currently, SLOs 1, 2, and 3 meet these overarching competencies.

Revisit the program on an annual basis to ensure core course SLOs are aligned with program competencies and EHAC accreditation standards. The evaluation will assess student opportunities to attain required competencies in core course.

- Review EHAC accreditation standards.
- o Review program mission, competencies and outcomes.
- Review SLOs and outcomes for core courses.

Ensure program competencies and SLOs are met through core courses.

		Student Learning Outcom	ie 1			
Student Learning Outcome	Identify and compile relevant information sources to assess an occupational safety and health problem.					
Measurement Instrument 1	Direct measure of student learning: Students in ENV 480 Hazardous and Solid Waste, an online senior level course in the certificate, were required to complete a term paper that required them to assess a hazardous waste issue by collecting background information, reviewing pertinent references, and providing a detailed discussion. The report was broken into five parts to evaluate each program SLO. To assess SLO 1 the introduction of the report, that included a literature review and background, was evaluated.					
Criteria for Student	Students sho	uld score "Proficient" or greater on the Er	nvironmental Health Re	eports Rubric for S	LO 1. Scores on the	
Success	rubric item for this SLO ranged from "Exemplary" (90-100), "Proficient" (Upper 80-89), "Apprentice" (70-79), and "Novice" (60-69).					
Program Success Target for t	this	75% of students will score proficient or	Percent of Program	75% of students s	scored proficient or	
Measurement		greater on SLO 1.	Achieving Target	et greater on SLO 1.		
Methods	Direct: Artifacts from the ENV 480 Hazardous and Solid Waste course were collected from all students in the course (<i>N</i> = 8). The papers were evaluated according to the Environmental Health Reports Rubric (Appendix 1). Each student paper was scored from 1 to 4 on each of the SLOs in the rubric. Scores represented the following ranges "Exemplary - 4" (90-100), "Proficient - 3" (Upper 85-90) and (Lower 80-84), "Apprentice - 2" (70-79), and "Novice - 1" (60-69). SLO 1 was assessed based on the lab report learning outcome of "Compile Environmental Health Information". A total of 6 of 8 students scored "Proficient" or greater for SLO 1.					
based on your results, highli	ight whether i	ne program met me goar Student Learm	ng Outcome 1.	🖂 Met	Not Met	
	~ ~	cess and actions for program improvemer on of SLO 1 a team of three EOHS faculty				
semester.		-	,			
Follow-Up (Provide your the improvement.)	imeline for fo	llow-up. If follow-up has occurred, d	escribe how the actio	ns above have re	esulted in program	
If changes are found to be nee 2022 semester.	eded to the rul	pric used for the evaluation of SLO 1 those	e changes will be compl	leted and impleme	nted by the Spring	
Next Assessment Cycle Plan	(Please descri	be your assessment plan timetable for this	s outcome)			
paper will continue to be coll	lected from the	on a yearly basis, therefore, the next asses e ENV 321 course. The program coordina formation and data related to SLO 1 from	tor for the 2021/22 acad	lemic year, Jacquel		

Measurement Instrument 1Students in ENV 1 an occupational sa communicate the r scenario at a workCriteria for Student SuccessStudents should so Students should soProgram Success Target for this Measurement75% distiMethodsDirect: Artifacts for students in the cou analysis was score	riteria for SLO 2.	a required course in the certific puired each student to interprete assignment met SLO 2 by rec- ed on interpretation and applic r greater on the assignment. Percent of Program Achieving Target	et the regulation quiring students cation of the reg 75% of student distinguished SLO 2. rse were collecte he course. Each Ss in the rubric.	and s to analyze a gulation. ts scored lower or greater on ed from all student SLO 2 was				
an occupational sate communicate the re- scenario at a workCriteria for Student SuccessStudents should so Students should so Togram Success Target for this distingProgram Success Target for this Measurement75% distingMethodsDirect: Artifacts for students in the comparison of analysis was score assessed based on students met the comparison of students met the comparison of tudents met the comparison of students met the comparison of tudents met the comparison of the decision-making process at The target for meeting SLO 2 was achieved but	fety and health regulation. This requestion through a discussion. The place and develop a discussion base fore "Lower Distinguished" (80%) of students will score lower nguished or greater on SLO 2.	uired each student to interpret e assignment met SLO 2 by rec ed on interpretation and applie r greater on the assignment. Percent of Program Achieving Target pational Safety and Health cou red according to the rubric in the tinguished on each of the SLC	et the regulation quiring students cation of the reg 75% of student distinguished SLO 2. rse were collecte he course. Each Ss in the rubric.	and s to analyze a gulation. ts scored lower or greater on ed from all student SLO 2 was				
communicate the r communicate the r scenario at a work Criteria for Student Students should so Success Frogram Success Target for this Program Success Target for this 75% Measurement disti Methods Direct: Artifacts fr students in the con analysis was score assessed based on students met the con Based on your results, circle or highlight wheth Actions (Describe the decision-making process a The target for meeting SLO 2 was achieved but	egulation through a discussion. The place and develop a discussion base fore "Lower Distinguished" (80%) o of students will score lower nguished or greater on SLO 2. From ENV 120 Introduction to Occup trse (N = 68). Analyses were evaluat d from Novice, Competent, and Dis score for the assignment, based on t riteria for SLO 2.	e assignment met SLO 2 by rec ed on interpretation and applic r greater on the assignment. Percent of Program Achieving Target pational Safety and Health cou red according to the rubric in t tinguished on each of the SLC	75% of students distinguished SLO 2.	ed from all sLO 2 was				
scenario at a workCriteria for StudentStudents should soSuccessStudents should soProgram Success Target for this75%MeasurementdistiMethodsDirect: Artifacts for students in the core analysis was score assessed based on students met the core assessed based on students met the core assessed based on students met the core assessed based on students met the coreActions (Describe the decision-making process a The target for meeting SLO 2 was achieved but	place and develop a discussion base fore "Lower Distinguished" (80%) of of students will score lower inguished or greater on SLO 2. From ENV 120 Introduction to Occup arse (N = 68). Analyses were evaluated of from Novice, Competent, and Dis score for the assignment, based on the citeria for SLO 2.	ed on interpretation and applied r greater on the assignment. Percent of Program Achieving Target Deational Safety and Health court red according to the rubric in the tinguished on each of the SLC	75% of student distinguished SLO 2. rse were collecte he course. Each S in the rubric.	ts scored lower or greater on ed from all student SLO 2 was				
Criteria for Student Students should so Success Program Success Target for this 75% Measurement disti Methods Direct: Artifacts for students in the contant analysis was score assessed based on students met the contant students met students met the contant students met students met the contant students met students met students met the contant students met	ore "Lower Distinguished" (80%) o of students will score lower nguished or greater on SLO 2. rom ENV 120 Introduction to Occup urse (N = 68). Analyses were evaluat d from Novice, Competent, and Dis score for the assignment, based on t riteria for SLO 2.	r greater on the assignment. Percent of Program Achieving Target Dational Safety and Health coursed according to the rubric in the substance of the SLC	75% of student distinguished SLO 2. rse were collecte he course. Each Os in the rubric.	ts scored lower or greater on ed from all student SLO 2 was				
Success 75% Program Success Target for this 75% Measurement distinut Methods Direct: Artifacts for students in the containallysis was score analysis was score assessed based on students met the containal studentstent students met the	of students will score lower nguished or greater on SLO 2. rom ENV 120 Introduction to Occup rse (N = 68). Analyses were evaluat d from Novice, Competent, and Dis score for the assignment, based on t riteria for SLO 2.	Percent of Program Achieving Target Dational Safety and Health coursed according to the rubric in the tinguished on each of the SLC	distinguished SLO 2. Irse were collecte he course. Each Os in the rubric.	or greater on ed from all student SLO 2 was				
Program Success Target for this 75% Measurement distinut Methods Direct: Artifacts for students in the couranalysis was score assessed based on students met the couranalysis was score assessed based on students met the couranalysis method. Based on your results, circle or highlight wheth Actions (Describe the decision-making process a The target for meeting SLO 2 was achieved but	nguished or greater on SLO 2. From ENV 120 Introduction to Occup Irse (N = 68). Analyses were evaluat d from Novice, Competent, and Dis score for the assignment, based on t riteria for SLO 2.	Achieving Target pational Safety and Health cou red according to the rubric in the tinguished on each of the SLC	distinguished SLO 2. Irse were collecte he course. Each Os in the rubric.	or greater on ed from all student SLO 2 was				
Measurement distinution Methods Direct: Artifacts from the construction of the construction	rom ENV 120 Introduction to Occup rrse (N = 68). Analyses were evaluat d from Novice, Competent, and Dis score for the assignment, based on t riteria for SLO 2.	Achieving Target pational Safety and Health cou red according to the rubric in the tinguished on each of the SLC	distinguished SLO 2. Irse were collecte he course. Each Os in the rubric.	ed from all student SLO 2 was				
students in the conalysis was score analysis was score assessed based on students met the conduct of the second students met the second students met the conduct of the second students met the conduct of the second students met the conduct of the second students met the second students met the second students met the second students the second students met the second students	rse (N = 68). Analyses were evaluat d from Novice, Competent, and Dis score for the assignment, based on t riteria for SLO 2.	ed according to the rubric in t tinguished on each of the SLC	he course. Each Is in the rubric.	student SLO 2 was				
students in the coulor analysis was score assessed based on students met the coulor Based on your results, circle or highlight wheth Actions (Describe the decision-making process a The target for meeting SLO 2 was achieved but	rse (N = 68). Analyses were evaluat d from Novice, Competent, and Dis score for the assignment, based on t riteria for SLO 2.	ed according to the rubric in t tinguished on each of the SLC	he course. Each Is in the rubric.	student SLO 2 was				
assessed based on students met the c Based on your results, circle or highlight wheth Actions (Describe the decision-making process a The target for meeting SLO 2 was achieved but	score for the assignment, based on t riteria for SLO 2.	0						
students met the c Based on your results, circle or highlight wheth Actions (Describe the decision-making process a The target for meeting SLO 2 was achieved but	riteria for SLO 2.	he rubric. Results of the asses	ssment indicated	l that 51 of 68				
Based on your results, circle or highlight wheth Actions (Describe the decision-making process a The target for meeting SLO 2 was achieved but				assessed based on score for the assignment, based on the rubric. Results of the assessment indicated that 51 of 68				
Actions (Describe the decision-making process a The target for meeting SLO 2 was achieved but	er the program met the goal Stude							
The target for meeting SLO 2 was achieved but	er the program met the goal Stude	nt Learning Outcome 2.	🔀 Met	🗌 Not Met				
The target for meeting SLO 2 was achieved but	nd actions planned for program imp	provement. The actions should	d include a time	line.)				
faculty members will review the results of SLO 2								
	yearly.	-						
Follow-Up (Provide your timeline for follow-improvement.)	up. If follow-up has occurred, c	lescribe how the actions abo	ove have result	ed in program				
If changes are found to be needed for the evaluat	ion of SLO 2 those changes will be c	completed and implemented b	y the Spring 202	22 semester.				
Next Assessment Cycle Plan (Please describe yo	ur assessment plan timetable for thi	s outcome)						
This outcome will be assessed in 2021/2022. Spec	fically, SLO 2 will be assessed by a t	eam of three EOHS faculty me	mbers in the Fal	ll 2021 semester.				
If any changes are needed they will be completed								

		Student Learning Outcom	e 3			
Student Learning Outcome	Apply app	ropriate field methods to collect occupation	onal safety and health data.			
Measurement Instrument 1	The preser each of the 79), and "N	Direct: Artifacts from ENV 321 Industrial Hygiene course were collected from all students in the course ($N = 8$). The presentations were evaluated according to the course rubric. Each student presentation was scored from on each of the SLOs in the rubric. Scores represented the following ranges "Proficient (80-100), "Competent" (70-79), and "Novice" (Less than 70). SLO 3 was assessed based on the presentation of methods to conduct a noise assessment.				
Criteria for Student Success	the rubric	Students should score "Proficient" or greater on the Environmental Health Reports Rubric for SLO 3. Scores on the rubric item for this SLO ranged from "Exemplary" (90-100), "Proficient" (Upper 80-89), "Apprentice" (70-79), and "Novice" (60-69).				
Program Success Target for this75% of students should score proficient or greater for SLO 3.			Percent of Program Achieving Target	87.5% of students scoredproficient or greater for SLO3.		
Methods	evaluated scored on t SLO 3 was	Direct : Artifacts from the course were collected from all students in the course (<i>N</i> = 8). The papers were evaluated according to the Environmental Health Term Paper Rubric (Appendix 1). Each student paper was scored on the term paper according to the rubric. Total scores on the rubric were rated from Poor to Excellent. SLO 3 was assessed based on the total score. Results of the assessment indicated that 7 of 8 students (87.5%) scored "Proficient" on SLO 3.				
Based on your results, circle or	r highlight v	whether the program met the goal Studer	nt Learning Outcome 3.	🔀 Met	Not Met	
To provide a more comprehen program. This will be instated	sive evaluat for the 2021	cess and actions for program improvemention of SLO 3 a blind assessment method -2022 program assessment. This course is assessed by a team of three EOHS faculty	will be established with three s offered every third semester	faculty members. The next offe		
improvement.)		ollow-up. If follow-up has occurred, d valuation of SLO 2 those changes will be c				
This outcome will be assessed i	n 2021/2022	ibe your assessment plan timetable for this . The instructor of record for the course wi aluate the scores on the rubric and report	ll maintain the artifacts, as we	0	m Director. The	

APPENDIX 1

Environmental Health Reports Rubric

Learning	Exemplary - 4	Proficient - 3	Apprentice - 2	Novice - 1	Score
Outcomes					
Compile	Information was	Information was	Information was	Information was	
environmental	collected from relevant	collected from relevant	collected from relevant	collected from	
health information	sources in a manner that	sources in a manner	sources with some	relevant sources with	
	provided interpretation	that provided synthesis	interpretation, but a	no interpretation or	
	of the environmental	of the environmental	synthesis of the	synthesis of the	
	health issue, problem, or	health issue, problem,	environmental health	environmental health	
	methods applied.	or methods applied.	issue, problem, or	issue, problem, or	
			methods applied was	methods applied was	
			not provided.	not provided.	
Explanation of the	Environmental health	Environmental health	Environmental health	Environmental health	
environmental	issue or problem was	issue or problem was	issue or problem was	issue or problem was	
health problem	comprehensively stated	clearly stated and	clearly stated but not	not clearly stated or	
	and explained.	explained.	explained.	explained.	
Apply methods to	Field and laboratory	Field and laboratory	Field and laboratory	Field and laboratory	
assess the	methods were applied	methods were applied	methods were applied	methods were not	
environmental	correctly in a manner	correctly in a manner	correctly, yet not in	applied correctly, and	
health problem or	that provided a	that provided an	manner that provided	did not provide an	
issue	comprehensive analysis	analysis of the problem.	an analysis of the	analysis of the	
	of the problem.		problem.	problem.	
Analyze data,	Data analysis was correct	Data analysis was	Data analysis had errors	Data analysis had	
present results, and	and presented through a	correct and presented	and a table or graph	errors and a table or	
discuss the findings	series of graphs and	through a graph or	was presented, yet it	graph was not	
	tables that were	table that that was	was not explained in	presented nor	
	explained in the report.	explained in the report.	the text of the report.	explained the report.	
Develop conclusions	Conclusions and	Conclusions and	Conclusions and	A Conclusion was	
and	recommendations were	recommendations were	recommendations were	presented, with not	
recommendations	developed that provided	discussed that provided	presented, but did not	recommendations,	
of the assessment	a comprehensive	a solution to the	provide a solution to	and it did not include a	
	solution to the	environmental health	the environmental	solution to the	
	environmental health	problem.	health problem.	environmental health	
	problem.			problem.	