# Learning Outcomes Assessment Report

**All-Years**

Acad Program - Chemical Laboratory Technology (AAS)

**Laboratory Performance.**

**Program Learning Outcome**: Perform basic chemical statistical analysis in a chemical lab setting. Assessed at the AAS level - Chemical Laboratory Technology.
**Outcome Status**: Active
**Assessment Years**: 2023 - 2024

| Assessment Method | Assessment Result |
|---|---|
| **Method Status:** Active<br>**Assessment Method:** The assessment method will be the final exam results in CLTE 2100.<br>**Criterion:** Average overall grade result for the student population successfully completing the course during the 2023-2024 academic year will be 80% or greater. | **Assessment Result Date**: 05/21/2024<br>**Assessment Result**: 83.50%<br>**Reporting Period**: 2023 - 2024<br>**Result Type**: Criterion Met<br>**Analysis**: Students are achieving the PLO objective. In the next academic year, the Advisory Committee will evaluate ways to better assess this PLO and seek to align the PLOs with industry needs.<br>**How did the previous cycle's improvement plan impact the data above?**: The previous year's improvement plan maintained performance. It is difficult to assess why because there are reliability and relevance issues that have been identified with the assessments.<br>**Improvement Plan**: The focus will be to ensuring each instructor is assessing the same way to ensure assessments are meaningful and relevant. This will be accomplished using a newly formed curriculum team. |

**Laboratory Softskills.**

**Program Learning Outcome**: Demonstrate basic soft skills related to gaining and maintaining employment such as: time management, appropriate work attire, working as a team, and effective communication. Assessed at the AAS level - Chemical Laboratory Technology.
**Outcome Status**: Active
**Assessment Years**: 2023 - 2024

| Assessment Method | Assessment Result |
|---|---|
| **Method Status:** Active<br>**Assessment Method:** The assessment method will be the final exam results in both CLTE 2002 and CLTE 2102. | **Assessment Result Date**: 05/21/2024<br>**Assessment Result**: 88.53%<br>**Reporting Period**: 2023 - 2024<br>**Result Type**: Criterion Met |

| Assessment Method | Assessment Result |
|---|---|
| **Criterion:** Average overall grade result for the student population successfully completing the course during the 2023-2024 academic year will be 80% or greater. | **Analysis**: Students are achieving the PLO objective. In the next academic year, the Advisory Committee will evaluate ways to better assess this PLO and seek to align the PLOs with industry needs.<br>**How did the previous cycle's improvement plan impact the data above?**: The previous year's improvement plan maintained performance. It is difficult to assess why because there are reliability and relevance issues that have been identified with the assessments.<br>**Improvement Plan**: The focus will be to ensuring each instructor is assessing the same way to ensure assessments are meaningful and relevant. This will be accomplished using a newly formed curriculum team. |

**Laboratory Safety.**

**Program Learning Outcome**: Demonstrate a basic knowledge of industrial and environmental safety. Assessed at the AAS level - Chemical Laboratory Technology.
**Outcome Status**: Active
**Assessment Years**: 2023 - 2024

| Assessment Method | Assessment Result |
|---|---|
| **Method Status:** Active<br>**Assessment Method:** The assessment method will be the final exam results in CLTE 1000.<br>**Criterion:** Average overall grade result for the student population successfully completing the course during the 2023-2024 academic year will be 80% or greater. | **Assessment Result Date**: 05/21/2024<br>**Assessment Result**: 84.63%<br>**Reporting Period**: 2023 - 2024<br>**Result Type**: Criterion Met<br>**Analysis**: Students are achieving the PLO objective. In the next academic year, the Advisory Committee will evaluate ways to better assess this PLO and seek to align the PLOs with industry needs.<br>**How did the previous cycle's improvement plan impact the data above?**: The previous year's improvement plan maintained performance. It is difficult to assess why because there are reliability and relevance issues that have been identified with the assessments.<br>**Improvement Plan**: The focus will be to ensuring each instructor is assessing the same way to ensure assessments are meaningful and relevant. This will be accomplished using a newly formed curriculum team. |

**Database Analysis.**

**Program Learning Outcome**: Display and analyze database information. Assessed at the AAS level - Chemical Laboratory Technology.
**Outcome Status**: Active
**Assessment Years**: 2023 - 2024

| Assessment Method | Assessment Result |
| --- | --- |
| **Method Status:** Active<br>**Assessment Method:** The assessment method will be the final exam results in CLTE 2102.<br>**Criterion:** Average overall grade result for the student population successfully completing the course during the 2023-2024 academic year will be 80% or greater. | **Assessment Result Date**: 05/21/2024<br>**Assessment Result**: 84.63<br>**Reporting Period**: 2023 - 2024<br>**Result Type**: Criterion Met<br>**Analysis**: Students are achieving the PLO objective. In the next academic year, the Advisory Committee will evaluate ways to better assess this PLO and seek to align the PLOs with industry needs.<br>**How did the previous cycle's improvement plan impact the data above?**: The previous year's improvement plan maintained performance. It is difficult to assess why because there are reliability and relevance issues that have been identified with the assessments.<br>**Improvement Plan**: The focus will be to ensuring each instructor is assessing the same way to ensure assessments are meaningful and relevant. This will be accomplished using a newly formed curriculum team. |