**LBHC Program learning outcome report (2023-24)**

**I. General information**

| **Degree or certificate name** | Highway Construction certificate |
| --- | --- |
| **Degree option names** | - |
| **Date report submitted** | 05.08.2024 |
| **Program faculty who contributed to this report** | Tucker Zingg |
| **Program learning outcome** (refer to your program learning outcomes curriculum map and plan for the PLO to be formally assessed this year) | 1. Maintain and inspect industrial equipment and safely operate several types of construction equipment. |
| **Course that formally assesses this program learning outcome at its highest level** (see program learning outcome curriculum map and plan) | HEO 102 |
| **Number of students assessed for this program learning outcome** | 9 |
| **Semester students were assessed** (e.g., fall 2023) | Fall 2023 |

**II. Assessment of indicators for the program learning outcome** (add more rows if necessary)

| **Break down your program learning outcome into indicators** (maybe taken from rubric): Students should be able to… | List the most significant **teaching and learning activities** used by faculty to facilitate the learning of each PLO indicator in their class(es) | List the **graded assignment(s) that formally assesses** each indicator at its highest level | **Results of assessment:** For each indicator, record the % or # of students who performed below, at, or above expected levels (or enter whatever information makes sense to you) | **Overall, how well did the students perform on each indicator?** (insert an “X” before the appropriate statement) |
| --- | --- | --- | --- | --- |
| Identify different pieces of equipment. | HEO simulator | Equipment / chapter tests | Below expected levels:  At expected levels: 4  Above expected levels: 5 | Below expected levels  At expected levels  Above expected levels X |
| Inspect and maintain equipment | Hands-on exercise | Lab tests | Below expected levels: 2  At expected levels: 3  Above expected levels: 4 | Below expected levels  At expected levels X  Above expected levels |
| Operate machinery | HEO simulator / hands-on exercise | Lab final | Below expected levels: 1  At expected levels: 2  Above expected levels: 4 | Below expected levels  At expected levels  Above expected levels X |

**III. Overall assessment of this program learning outcome** (please be thorough in all responses)

| **Overall, how well did the students perform on this PLO?** (insert an “X” before the appropriate statement) | Below expected levels  At expected levels X  Above expected levels |
| --- | --- |
| **Analyze assessment of PLO indicator results in section II:** What does the information in section II suggest to you about the performance expectations, the teaching strategies, and student learning? | Hands on experiences seemed to work best for student retention of informaiton and engagement.  Book work and lectures did not have the level of effectiveness desired. |
| **Next steps:** Plans for reinforcing effective teaching and learning strategies and for improving student learning (clearly identify what will be done, by whom, by when, and how you will assess the impact of the changes) | More interactive lectures and visuals.  More hand-on activities. |
| **Projected semester of implementing “next steps”** | Fall 2024 |
| **Results of “next steps” implementation on student learning – this section is to be completed the following year** (describe how the implementation of the above “next steps” impacted student learning in the program) |  |
| **Date “results of ‘next steps’ implementation” section above submitted** |  |
| **Suggestions** for improving this report or process (if any) |  |