

Student Learning Outcomes for Industrial Hygiene

2010-2011

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| Title: | Identification of Health Affecting Agents |
| Description: | It is expected that at the time of graduation, UNA IH students will be able to identify health-affecting agents, factors, and stressors and how they relate to typical industrial processes, unit operations, and tasks. |
| Budget: | \$0.00 |
| Core Competencies: | 4,5 |
| 25% Online: | |
| 50% Online: | |
| Core Competencies: | 4,5 |
| How Often: | Every year |
| Assessed this Year? | Yes |
| Responsibility: | Program Coordinator |
| Participation: | Department Chair |
| Direct Assessments | Hourly and Final Exams |
| Indirect Assessments | |

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| Results: | A total of 84% of students demonstrated appropriate level of knowledge. |
| Curriculum: | None |
| Actions: | No |
| Improvements: | The IH Program at UNA has identified 25 educational outcomes. These outcomes are defined as broad expectations of knowledge and abilities that students must acquire upon completion of their academic program. Each outcome is evaluated by a set of related measurable performance criteria (MPC). The MPC are measured by using direct and indirect methods of assessment. Direct methods of assessment consist of selected samples of graded work that students must complete as requirements of the IH courses. Indirect methods of assessment consist of specific questions of surveys and questionnaires submitted to former students and employers. During the academic year 2010-2011, a subset of the 25 outcomes was assessed using direct methods. Achievement of at least 75% was considered as a minimum for acceptance, and this outcome achieved that goal. |

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| Title: | Human Response to Exposures |
| Description: | It is expected that at the time of graduation, UNA IH students will be able to explain mechanisms of human physiological response, toxicity, and health damage associated with the exposure to industrial agents, factors, and stressors. |
| Budget: | \$0.00 |
| Core Competencies: | 1,4,5 |
| 25% Online: | |
| 50% Online: | |
| Core Competencies: | 1,4,5 |
| How Often: | Every year |
| Assessed this Year? | Yes |
| Responsibility: | Program Coordinator |
| Participation: | Department Chair |
| Direct Assessments | |

Hourly and Final Exams

Indirect Assessments

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| Results: | A total of 84% of students demonstrated appropriate level of knowledge. |
| Curriculum: | None |
| Actions: | No |
| Improvements: | The IH Program at UNA has identified 25 educational outcomes. These outcomes are defined as broad expectations of knowledge and abilities that students must acquire upon completion of their academic program. Each outcome is evaluated by a set of related measurable performance criteria (MPC). The MPC are measured by using direct and indirect methods of assessment. Direct methods of assessment consist of selected samples of graded work that students must complete as requirements of the IH courses. Indirect methods of assessment consist of specific questions of surveys and questionnaires submitted to former students and employers. During the academic year 2010-2011, a subset of the 25 outcomes was assessed using direct methods. Achievement of at least 75% was considered as a minimum for acceptance, and this outcome achieved that goal. |

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| Title: | Generation and Dispersion of Chemical Agents |
| Description: | It is expected that at the time of graduation, UNA IH students will be able to describe mechanisms of generation and air dispersion of chemical agents in quantitative and qualitative terms. |
| Budget: | \$0.00 |
| Core Competencies: | 3,4,5 |
| 25% Online: | |
| 50% Online: | |
| Core | 3,4,5 |

Competencies:**How Often:** other**Assessed this Year?** No**Responsibility:** Program Coordinator**Participation:** Department Chair**Direct Assessments**

Hourly and Final Exams

Indirect Assessments**Results:** The outcome was not assessed this past year.**Curriculum:****Actions:****Improvements:**

Title: Interpretation of Exposure Standards**Description:** It is expected that at the time of graduation, UNA IH students will be able to understand the scope, application, use, and interpretation of occupational exposure standards and guidelines.**Budget:** \$0.00**Core Competencies:** 4,5**25% Online:****50% Online:**

Core Competencies: 4,5

How Often: Every year

Assessed this Year? Yes

Responsibility: Program Coordinator

Participation: Department Chair

Direct Assessments

Hourly and Final Exams

Indirect Assessments

Results: A total of 81% of students demonstrated appropriate level of knowledge.

Curriculum: None

Actions: No

Improvements: The IH Program at UNA has identified 25 educational outcomes. These outcomes are defined as broad expectations of knowledge and abilities that students must acquire upon completion of their academic program. Each outcome is evaluated by a set of related measurable performance criteria (MPC). The MPC are measured by using direct and indirect methods of assessment. Direct methods of assessment consist of selected samples of graded work that students must complete as requirements of the IH courses. Indirect methods of assessment consist of specific questions of surveys and questionnaires submitted to former students and employers. During the academic year 2010-2011, a subset of the 25 outcomes was assessed using direct methods. Achievement of at least 75% was considered as a minimum for acceptance, and this outcome achieved that goal.

Title: Ethics

Description: It is expected that at the time of graduation, UNA IH students will be able to demonstrate familiarity with the code of ethics of the IH profession and the importance of ethical conduct and professional responsibility.

Budget: \$0.00

Core Competencies: 5

25% Online:

50% Online:

Core Competencies: 5

How Often: other

Assessed this Year? No

Responsibility: Program Coordinator

Participation: Department Chair

Direct Assessments

Hourly and Final Exams

Indirect Assessments

Results:

Curriculum:

Actions:

Improvements:

Title: Physical Agents

Description: It is expected that at the time of graduation, UNA IH students will be able to apply principles of physics and mathematics to describe mechanical systems, energy sources, and the methods used for evaluating occupational exposures to physical agents.

Budget: \$0.00

Core Competencies: 3,4,5

25% Online:

50% Online:

Core Competencies: 3,4,5

How Often: other

Assessed this Year? No

Responsibility: Program Coordinator

Participation: Department Chair

Direct Assessments

Hourly and Final Exams

Indirect Assessments

Results:

Curriculum:

Actions:

Improvements:

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| Title: | Controls |
| Description: | It is expected that at the time of graduation, UNA IH students will apply principles of design and use standard practices for performance evaluations of ventilation systems used for exposure control. |
| Budget: | \$0.00 |
| Core Competencies: | 1,3,5 |
| 25% Online: | |
| 50% Online: | |
| Core Competencies: | 1,3,5 |
| How Often: | other |
| Assessed this Year? | No |
| Responsibility: | Program Coordinator |
| Participation: | Department Chair |
| Direct Assessments | |
| | Hourly and Final Exams |
| Indirect Assessments | |
| Results: | |
| Curriculum: | |
| Actions: | |
| Improvements: | |

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| Title: | Training |
| Description: | It is expected that at the time of graduation, UNA IH students will be able to design programs and training materials for educating constituencies in occupational health and safety. |
| Budget: | \$0.00 |
| Core Competencies: | 1,5 |
| 25% Online: | |
| 50% Online: | |
| Core Competencies: | 1,5 |
| How Often: | Every year |
| Assessed this Year? | Yes |
| Responsibility: | Program Coordinator |
| Participation: | Department Chair |
| Direct Assessments | |
| | Hourly and Final Exams |
| Indirect Assessments | |
| Results: | |
| Curriculum: | |
| Actions: | |
| Improvements: | |

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| Title: | Safety Programs |
| Description: | It is expected that at the time of graduation, UNA IH students will be able to describe fundamental aspects of safety and understand the importance of creating effective safety programs. |
| Budget: | \$0.00 |
| Core Competencies: | 4,5 |
| 25% Online: | |
| 50% Online: | |
| Core Competencies: | 4,5 |
| How Often: | other |
| Assessed this Year? | No |
| Responsibility: | Program Coordinator |
| Participation: | Department Chair |
| Direct Assessments | |
| | Hourly and Final Exams |
| Indirect Assessments | |
| Results: | |
| Curriculum: | |
| Actions: | |
| Improvements: | |

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| Title: | Effective Communication |
| Description: | It is expected that at the time of graduation, UNA IH students will be able to communicate effectively, both written and orally, with various constituencies. |
| Budget: | \$0.00 |
| Core Competencies: | 1,4 |
| 25% Online: | |
| 50% Online: | |
| Core Competencies: | 1,4 |
| How Often: | other |
| Assessed this Year? | No |
| Responsibility: | Program Coordinator |
| Participation: | Department Chair |
| Direct Assessments | |
| | Hourly and Final Exams |
| Indirect Assessments | |
| Results: | |
| Curriculum: | |
| Actions: | |
| Improvements: | |