

**Course Evaluation Measures Menu**

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| **Course number:** | ACR 105 |
| **Course title:** | Residential Heating I |
| **Campus location(s):** | Georgetown |
| **Effective semester:** | 2020-51 |

**Core Course Performance Objectives:**

1. Evaluate the operation of fossil fuel heating systems. (CCC 2, 5; PGC 2, 4, 5)
2. Investigate typical installation practices. (CCC 2, 5; PGC 1, 5, 6, 7)
3. Examine oil and gas fired furnaces. (CCC 5; PGC 2)
4. Evaluate the operation of high efficiency furnaces. (CCC 2; PGC 2)
5. Troubleshoot problems with oil and gas heating systems in light of the corresponding sequences of operation and expected outputs. (CCC 1, 2, 3, 4; PGC 2, 3, 5, 6).
6. Check and adjust an oil burner for proper efficiency. (CCC 5; PGC 2, 5)

**Summative Evaluations**

*Please note: All courses must have a* ***minimum******of four*** *summative evaluation measures, and those measures should include a variety of evaluation methods (e.g., test, oral presentation, group project).* ***Please list all summative evaluation measures.*** *In addition to these summative measures, a variety of formative exercises/quizzes/other assignments should be used to guide instruction and learning but do not need to be included on this template.*

*For each measure, please include a scope of the assignment: for example, if requiring a research paper, include the range of required number of words and number and types of sources; for a test, include the types and number of questions; for a presentation, include the minimum and maximum time, and so on.*

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| **Evaluation Measures:**  | **Which CCPO(s) does this evaluation measure?**  |
| **Quiz** **1** – 10 questions, short answer | 1, 4 |
| **Quiz** **2** – 10 questions, short answer | 1, 4, 5 |
| **Quiz** **3** – 10 questions, short answer | 1, 3, 6 |
| **Competency Exam 1 –** includes 50 multiple choice questions | 1, 4, 5 |
| **Competency Exam 2 –** includes 30 multiple choice questions | 1, 4, 5 |
| **Competency Exam 3 –** includes 50 multiple choice questions | 3, 6 |
| **Lab Competency** – (40) trouble shooting scenarios through oral assessment and physical demonstration after laboratory practice | 1, 2, 3, 4, 5, 6 |

**FINAL COURSE GRADE**

(Calculated using the following weighted average)

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| **Evaluation Measure** | **Percentage of final grade** |
| Quizzes (3) (Formative) (equally weighted) | 25% |
| Competency Exams (3) (Summative) (equally weighted) | 50% |
| Lab Competency (Summative) (equally weighted) | 25% |
| TOTAL | 100% |

 (Electronic Signature Permitted)

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| **Submitted by (Collegewide Lead):** | Mark Swarbrick | **Date** | 6/1/2018 |
|  |  |  |  |
| **[ ]  Approved by counterparts** | **Date** |  |
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| **[ ]  Reviewed by Curriculum Committee** | **Date** |  |