**Individual Direct Assessments Rubric Worksheets**

**Systems Design and Engineering Skills**

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| Rubric | Systems Design and Engineering Skills | | | |
| Category of Assessment | Inadequate | Needs Improvement | Adequate | Excellent |
| System Modeling | Inaccurate representation of the system being modeled. There are numerous (UML) syntactical errors and the semantics of the system are not fully captured. | The model only represents part of the key features of the system.  There are some (UML) syntactical errors and omission of some semantics. | The model represents many of the key features of the system.  There are minor (UML) syntax errors and minor problems with semantics. | The system model accurately represents the system being modeled. Syntactically correct use of the (UML) notation and the semantics are correctly and fully modeled. |
| Project Planning and Execution | The schedule was developed but not followed and major milestones were left out or an unrealistic schedule was developed. | Some milestones were left out and there was some deviation to the schedule. | All major milestones were specified but some were unclear and there was minor deviation from the plan. | Clear milestones were developed with a realistic schedule that was followed. |
| Soliciting Customer Requirements | Few requirements identified and major customers were not contacted. | Major omissions occur in the functional and performance requirements and some major customers were not contacted. | Primary customers were contacted but minor omissions in functional and performance needs were cited. | Primary customers were contacted and major functional, nonfunctional and performance requirements were defined. |
| Project Documentation | Design document does not include documentation of major pieces, e.g., no description of data structures or no functional model. | Design document has omissions with regard to missing data structures or missing pieces of the functional model. | Design document has minor details missing with regard to data structures, functional model, system architecture, etc. | Design document includes complete descriptions of all data structures, functional model, system architecture, interface design, software, test data sets, user manual, developers guide. |

**Assessment**

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| Rubric | Systems Design and Engineering Skills | | | |
| Category of Assessment | Inadequate | Needs Improvement | Adequate | Excellent |
| System Modeling |  |  |  |  |
| Project Planning and Execution |  |  |  |  |
| Soliciting Customer Requirements |  |  |  |  |
| Project Documentation |  |  |  |  |

If 75% of the students achieve levels c or better, then they have met the ABET/HLC performance standard for the course.

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| Summary of Assessment **Improvement** |

Assessed By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_