

Direct and Indirect Measures of Student Learning Outcomes across Micro-Credentials

	<i>Artificial Intelligence: How It Works and Its Impact</i>	<i>Thinking and Communicating with Data</i>	<i>Understanding Emotional Intelligence</i>
Formative Assessment			
Direct Measures	One five-item quiz per module will assess student attainment of the four SLOs. All quiz items will be open-ended questions assessed using a 3-point rubric (correct=2; partially correct=1; incorrect=0).	One five- to seven-item quiz per module will assess student attainment of the six SLOs. All quiz items will be close-ended multiple-choice and true/false questions scored dichotomously (correct=1; incorrect=0).	One five-item quiz per module will assess student attainment of SLOs 1 through 4. All quiz items will be close-ended multiple-choice and true/false items questions scored dichotomously (correct=1; incorrect=0). One written assignment per module will assess content and its application. Assignments will be scored using rubrics with different indicators according to the assignment context designed to assess SLOs 1 through 4.
Summative Assessment			
Direct Measures	None	One project consisting of a written paper and presentation will assess student attainment of the six SLOs using a 5-point rubric (anchors per item: 1=lowest score; 5=highest score).	None
Indirect Measures	A five-item pre- and post-micro-credential reflection will assess students' self-reported competency in the four SLOs; the last item will prompt a general reflection. Reflections will be scored using a 5-point rubric with one indicator per SLO (anchors per item: 1=lowest score; 5=highest score).	One eight-item post-micro-credential reflection will assess students' self-reported competency in the six SLOs; the last two items will prompt general reflection. Reflections will be scored using a five-point rubric with one indicator per SLO (anchors per item: 1=lowest score; 5=highest score).	A five-item-post micro-credential reflection will assess students' self-reported competency in the five SLOs. Reflections will be scored using a 5-point rubric with one indicator per SLO (ranging from excellent to missing/incomplete).