UWA Plus Micro-credentials
Critical Information Summary

Title and brief description	MINEM522 Tailings Water Balance. This micro-credential has been designed for professionals working in the field of tailings management. It is best suited to practicing engineers, geoscientists or individuals with responsibility for managing water within a tailings storage facility to ensure operational safety and efficiency of the tailings storage facility as well as to provide adequate water for operations. It is the second of three micro-credentials in Tailings Operations and Water Management. Participants will learn about components of a water balance, inputs and outputs, and how to quantify these, including dealing with inherent uncertainties. Ensuring provision for adequate storage and methods for overtopping are emphasised, the primary objective being to improve students' understanding of risks associated with the dynamic nature of a tailings storage facility water balance.
Certified learning	(1) describe the components of a water balance; (2) calculate storage requirements for various design storm events and ensure sufficient storage capacity; (3) evaluate the decant pump requirements or spillway capacity when managing an extreme storm event; (4) quantify the inputs and outputs of water; and (5) design for a zero spill operation and potential changes due to climate change.
How learner participated	Online only
Effort required (indicative)	50 hours, including online contact hours, personal study time and assessments.
Main assessment task	Application of multiple skills to complex problems
Indicative equivalent level	Postgraduate
Industry recognition	None
Quality assurance	The quality of UWA Plus micro-credentials is assured through The University of Western Australia's standards and academic integrity processes.
Successful learner earns PD Points for conversion to:	2
. Admission to an award course	No
. Credit towards an award course	Yes
. If yes, how much credit?	Credit is less than one unit