



## UWA Plus Micro-credentials

### *Critical Information Summary*

Title and brief description	<p>MINEM531 Risk Evaluation For Tailings Engineering. 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 input into risk assessments of tailings storage facilities, although the content covered and the principles discussed will find relevance in all fields of mining geomechanics.</p> <p>Participants will learn about determining what constitutes a safe design, through topics that include the Factor of Safety approach, probabilistic approaches and risk as an acceptable criterion. Topics will include uncertainty and variability, safety risk acceptance levels and the use of safety matrices, and the concepts of ALARP and frequency-consequence evaluations.</p>
Certified learning	(1) compare the factor of safety approach to probability of failure approach; (2) evaluate the applicability of various risk matrices to tailings storage facilities; (3) compare various risk acceptance criteria; and (4) demonstrate how to achieve status of ALARP.
How learner participated	Online only
Effort required (indicative)	50 hours, including online contact hours, personal study time and assessments.
Main assessment task	Application of a skill to a complex problem
Indicative equivalent level	Postgraduate
Quality assurance	N/A
Successful learner earns PD Points for conversion to:	2
. Admission to an award course	No
. Credit towards an award course	Yes Stackable with additional micro-credentials. Students may apply for the Graduate Certificate in Tailings Management* after successfully completing the twelve micro-credentials and associated assessments.
. If yes, how much credit?	Credit is less than one unit

\*In order to apply for the Graduate Certificate award you must have a Bachelor of Engineering degree or a degree in a related field and have met UWA's English language competency requirements. Please refer to the Graduate Certificate in Tailings Management for further information.