

AQF LEVEL	AQF LEVEL 9 CRITERIA – MASTERS DEGREE (COURSEWORK)		PROGRAM LEARNING OUTCOMES
PURPOSE	The Masters Degree (Coursework) qualifies individuals who apply an advanced body of knowledge in a range of contexts for professional practice or scholarship and as a pathway for further learning		
KNOWLEDGE	Graduates of a Masters Degree (Coursework) will have: <ul style="list-style-type: none"> ▪ a body of knowledge that includes the understanding of recent developments in a discipline and/or area of professional practice ▪ knowledge of research principles and methods applicable to a field of work and or learning 	Graduates of the Master of Engineering Project Management Advanced will: <ul style="list-style-type: none"> • Have an advanced and in depth-understanding of the knowledge required to manage engineering projects and systems • Have specialised knowledge to develop and in-depth understanding of the impact of engineering management solutions on the performance of engineering systems • Knowledge of research principles and methods as applicable to the engineering management field. 	
SKILLS	Graduates of a Masters Degree (Coursework) will have: <ul style="list-style-type: none"> ▪ cognitive skills to demonstrate mastery of theoretical knowledge and to reflect critically on theory and professional practice or scholarship ▪ cognitive, technical and creative skills to investigate, analyse and synthesise complex information, problems, concepts and theories and to apply established theories to different bodies of knowledge or practice ▪ cognitive, technical and creative skills to generate and evaluate complex ideas and concepts at an abstract level 	Graduates of the Master of Engineering Project Management Advanced will have: <ul style="list-style-type: none"> • Cognitive and technical skills in the management of engineering projects and systems • Technical skills to design a management system or process to meet desired needs within realistic constraints • Cognitive and communication skills to identify, interpret, and analyse stakeholders' needs with the goal to develop sustainable engineering solutions • Cognitive and communication skills to justify their material/management selections based on robust arguments • Technical skills to apply and conform with relevant safety codes • Teamwork and communication skills. 	

**APPLICATION OF
 KNOWLEDGE &
 SKILLS**

<ul style="list-style-type: none"> ▪ communication and technical research skills to justify and interpret theoretical propositions, methodologies, conclusions and professional decisions to specialist and non-specialist audiences ▪ technical and communication skills to design, evaluate, implement, analyse and theorise about developments that contribute to professional practice or scholarship 	
<p>Graduates of a Masters Degree (Coursework) will demonstrate the application of knowledge & skills:</p> <ul style="list-style-type: none"> ▪ with creativity and initiative to new situations in professional practice and/or for further learning ▪ with high level personal autonomy and accountability ▪ to plan and execute a substantial research-based project, capstone experience and/or piece of scholarship 	<p>Graduates of the Master of Engineering Project Management Advanced will demonstrate the ability to apply their knowledge and skills in:</p> <ul style="list-style-type: none"> • Addressing the challenges associated with the management of engineering projects and processes • Creatively developing problem-solving approaches not only to address the identified challenges, but also to make decisions using sound engineering methodologies • Planning and executing a substantial research-based civil engineering project.