PROFESSIONAL ENGINEER

Summary Statement

These are the competency Units and Elements. These elements must be addressed in the Summary Statement (see Section C). If you are applying for assessment as a Professional Engineer, you will need to download this page, complete it and lodge it with your application.

Competency Element	A brief summary of how you have applied the element	Paragraph number in the career episode(s) where the element is addressed
PE1 KNOWLEDGE AND SKILL BASE		
PE1.1 Comprehensive, theory-based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline	I executed the three projects in the Mining Engineering field and these are: • Numerical Analysis of Primer Location Effect on Uneven Breakage Caused by Blasting. • Coal Mine Design and Feasibility Project. • Design of a Surface Mine.	CE 1.1, CE 2.1, CE 3.1
PE1.2 Conceptual understanding of the mathematics, numerical analysis, statistics and computer and information sciences which underpin the engineering discipline	I evaluated the numerical values in the project and information sciences principles accordingly executed with defined execution of mining engineering practices.	CE 1.3, CE 2.4, CE 3.6
PE1.3 In-depth understanding of specialist bodies of knowledge within the engineering discipline	The research was made with fundamental practices applied in the mining engineering field.	CE 1.9, CE 2.8, CE 3.9
PE1.4 Discernment of knowledge development and research directions within the engineering discipline	The project principles were evaluated and applied with the fundamental skills applied in the mining engineering domain.	CE 1.10, CE 2.11, CE 3.10
PE1.5 Knowledge of contextual factors impacting the engineering discipline	I conducted definite principle research with applying mining engineering practices for getting the timely results.	CE 1.11, CE 2.12, CE 3.11
PE1.6 Understanding of the scope, principles, norms, accountabilities and bounds of contemporary engineering practice in the specific discipline	I understood the norms and accountabilities factors were analyzed for getting the desired results.	CE 1.12, CE 2.10, CE 3.12
PE2 ENGINEERING APPLICATION ABILITY		
PE2.1 Application of established engineering methods to complex engineering problem solving	The complex engineering activities were sorted with applying fundamental skills applied in the mining engineering domain.	CE 1.8, CE 2.10, CE 3.9
PE2.2 Fluent application of engineering techniques, tools and resources	I made execution of the fluent engineering practices with getting the set results within the defined tenure.	CE 1.10, CE 2.11, CE 3.10

PE2.3 Application of systematic engineering synthesis and design processes	There was execution made of the systematic research and design processes which were followed for obtaining the definite results.	CE 1.11, CE 2.9, CE 3.11
PE2.4 Application of systematic approaches to the conduct and management of engineering projects	I made execution of the systematic research which was being made on various principles and obtained the set results.	CE 1.12, CE 2.12, CE 3.12
PE3 PROFESSIONAL AND PERSONAL ATTRIBUTES		
PE3.1 Ethical conduct and professional accountability	Professional ethical factors were analyzed and evaluated with getting the set results.	CE 1.12, CE 2.11, CE 3.10
PE3.2 Effective oral and written communication in professional and lay domains	An effective communication skills were maintained and followed in the work for obtaining the desired results.	CE 1.11, CE 2.12, CE 3.11
PE3.3 Creative innovative and proactive demeanour	I maintained proactive demeanour in the work for obtaining the desired work results and with execution made of the project activities.	CE 1.10, CE 2.9, CE 3.8
PE3.4 Professional use and management of information	I executed mining engineering activities which included professional usage of technical skills for obtaining the set results.	CE 1.9, CE 2.8, CE 3.9
PE3.5 Orderly management of self, and professional conduct	I consistently managed technical skills in the work for obtaining the results with professional activities maintained throughout the project.	CE 1.7, CE 2.10, CE 3.7
PE3.6 Effective team membership and team leadership	There was effective team leadership skills followed in the work for getting the desired results.	CE 1.11, CE 2.12, CE 3.11