**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.**

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| **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 |  |  |
| PE1.2 Conceptual understanding of the mathematics, numerical analysis, statistics and computer and information sciences which underpin the engineering discipline |  |  |
| PE1.3 In-depth understanding of specialist bodies of knowledge within the engineering discipline |  |  |
| PE1.4 Discernment of knowledge development and research directions within the engineering discipline |  |  |
| PE1.5 Knowledge of contextual factors impacting the engineering discipline |  |  |
| PE1.6 Understanding of the scope, principles, norms, accountabilities and bounds of contemporary engineering practice in the specific discipline |  |  |
| **PE2 ENGINEERING APPLICATION ABILITY** | | |
| PE2.1 Application of established engineering methods to complex engineering problem solving |  |  |
| PE2.2 Fluent application of engineering techniques, tools and resources |  |  |
| PE2.3 Application of systematic engineering synthesis and design processes |  |  |
| PE2.4 Application of systematic approaches to the conduct and management of engineering projects |  |  |
| **PE3 PROFESSIONAL AND PERSONAL ATTRIBUTES** | | |
| PE3.1 Ethical conduct and professional accountability |  |  |
| PE3.2 Effective oral and written communication in professional and lay domains |  |  |
| PE3.3 Creative innovative and proactive demeanour |  |  |
| PE3.4 Professional use and management of information |  |  |
| PE3.5 Orderly management of self, and professional conduct |  |  |
| PE3.6 Effective team membership and team leadership |  |  |