

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	The three projects in avionics engineering which I did are: <ul style="list-style-type: none"> • Design of Radio-Controlled Glider. • Adaptive Missile Guidance using GPS. • Vision Based Obstacle Avoidance for UAVs. 	CE 1.3, 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	The defined stages in the project worked for getting the desired results with carrying out mathematical and numerical analysis in the project.	CE 1.7, CE 2.9, CE 3.8
PE1.3 In-depth understanding of specialist bodies of knowledge within the engineering discipline	Appropriate work milestones in the project were achieved with consistent practices and skills applied in the avionics engineering field.	CE 1.10, CE 2.10, CE 3.10
PE1.4 Discernment of knowledge development and research directions within the engineering discipline	The work factors were evaluated with the research being made on various factors and achieved the desired work results within the set tenure.	CE 1.11, CE 2.11, CE 3.12
PE1.5 Knowledge of contextual factors impacting the engineering discipline	I evaluated the contextual work factors and obtained the research principles accordingly which provided positive work results.	CE 1.9, CE 2.8, CE 3.9
PE1.6 Understanding of the scope, principles, norms, accountabilities and bounds of contemporary engineering practice in the specific discipline	There were appropriate norms and principles applied in the work with contemporary engineering practices maintained throughout the project.	CE 1.12, CE 2.12, CE 3.11
PE2 ENGINEERING APPLICATION ABILITY		
PE2.1 Application of established engineering methods to complex engineering problem solving	In the entire work tenure when evaluating and executing various project activities, I sorted the complex issues and achieved the maximum work results.	CE 1.10, CE 2.11, CE 3.11
PE2.2 Fluent application of engineering techniques, tools and resources	Fluent engineering principles were applied with the resources and tools mainly used for obtaining the set project outputs.	CE 1.9, CE 2.9, CE 3.10

PE2.3 Application of systematic engineering synthesis and design processes	I followed the design processes in the project with the systematic engineering principles implemented appropriately in the project.	CE 1.10, CE 2.8, CE 3.7
PE2.4 Application of systematic approaches to the conduct and management of engineering projects	I carried out research activities in the project and brought timely results within the specified project timeline.	CE 1.12, CE 2.10, CE 3.12
PE3 PROFESSIONAL AND PERSONAL ATTRIBUTES		
PE3.1 Ethical conduct and professional accountability	Ethical guidelines in the work were followed for effectively obtaining the project results.	CE 1.8, CE 2.9, CE 3.8
PE3.2 Effective oral and written communication in professional and lay domains	Organizational communication structure was followed in professional manner for obtaining the set results.	CE 1.12, CE 2.10, CE 3.7
PE3.3 Creative innovative and proactive demeanour	There was creative and innovative work activities followed in the project for obtaining the set results.	CE 1.10, CE 2.8, CE 3.9
PE3.4 Professional use and management of information	I applied information management principles in the project with the professional usage of engineering skills applied adequately in the work.	CE 1.11, CE 2.12, CE 3.11
PE3.5 Orderly management of self, and professional conduct	I applied professional conduct with the orderly self-management practices in the project for getting the targeted results.	CE 1.9, CE 2.11, CE 3.10
PE3.6 Effective team membership and team leadership	Acquired appropriate leadership skills in the project which were achieved after successful completion of assigned project duties.	CE 1.12, CE 2.9, CE 3.12