

## PROFESSIONAL ENGINEER Summary Statement

Competency Element	A brief summary of how you have applied the element	Paragraph number in the career episode(s) where the element is addressed
<b>PE1 KNOWLEDGE AND SKILL BASE</b>		
PE1.1 Comprehensive, theory-based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline	I had successfully applied my theoretical knowledge of engineering studies to the actual project, which clearly demonstrate the understanding of physical sciences and the engineering fundamentals in the engineering discipline.	CE 1.7,1.11,1.12, CE 2.2, 2.7,2.8, 2.9 CE 3.3, 7
PE1.2 Conceptual understanding of the mathematics, numerical analysis, statistics and computer and information sciences which underpin the engineering discipline	I had performed the analysis and simulation for the different components and also the cost analysis for the same.	CE 1.7, 1.11, 1.12, 2.5
PE1.3 In-depth understanding of specialist bodies of knowledge within the engineering discipline	I used my engineering knowledge in the development of the projects according to the requirement of project needs, academic curriculum and industry requirements.	CE 1.11, 1.13 CE 2.1, 2.2, 2.5
PE1.4 Discernment of knowledge development and research directions within the engineering discipline	I always kept up-to-date of new developments in technology relating to my discipline especially those are related to my current project objectives.	CE 1.5 CE 2.4, 2.5 CE 3.5, 3.6
PE1.5 Knowledge of contextual factors impacting the engineering discipline	I understand the factors to determine and develop the project before starting it as a part of the feasibility study for this project.	CE 1.6 CE 2.5 CE 3.2
PE1.6 Understanding of the scope, principles, norms, accountabilities and bounds of contemporary engineering practice in the specific discipline	I use the systematic designing approach for the most possible engineering design of these projects.	CE 1.6, 1.8 CE 2.5,2.6 CE 3.5
<b>PE2 ENGINEERING APPLICATION</b>		
PE2.1 Application of established engineering methods to complete engineering problem solving	I make sure that the projects are based on major activities and fundamental engineering principles and also fulfill the needs of the market.	CE 1.2 CE 2.2 CE 3.2
PE2.2 Fluent application of engineering techniques, tools and resources	I used the engineering techniques and tools for the project and it made my job easy to perform and implement it.	CE 1.8, 1.9, 1.11 CE 2.7, 2.8, 2.10 CE 3.6, 3.7, 3.8, 3.10
PE2.3 Application of systematic engineering synthesis and design processes	I defined the projects in proper blocks, study them individually and make a proper layout before starting the work so that work can proceed easily.	CE 1.6 CE 2.3, 2.4 CE 3.4, 3.5

PE2.4 Application of systematic approaches to the conduct and management of engineering projects	I approached the project in a manner that the proper work management can be justified easily.	CE 1.4, 1.10 CE 2.6, 2.14 CE 3.5
<b>PE3 PROFESSIONAL AND PERSONAL ATTRIBUTES</b>		
PE3.1 Ethical conduct and professional accountability	I keep in mind that the project is beneficial for both society and Engineering technical skills.	CE 1.2 CE 2.2 CE 3.2
PE3.2 Effective oral and written communication in professional and lay domains	I have made the communication flow properly between the supervisor and team, and prepared the presentation and reports for the project.	CE 1.5, 1.6 CE 2.3, 2.15
PE3.3 Creative innovative and proactive demeanour	I have used the problem solving troubleshooting and testing approaches when we encountered the problems in the project.	CE 1.15 CE 2.1, 2.15 CE 3.5
PE3.4 Professional use and management of information	I Collected the necessary data and research for the project work required during the development.	CE 1.6, 1.10 CE 2.3, 2.5, 2.11, 2.12 CE 3.1, 3.4, 3.5
PE3.5 Orderly management of self, and professional conduct	I studied and Understand the content aspects of the project in the ethical and technical manner for the upgrade in technical and professional knowledge.	CE 1.2, 1.8, 1.11, 1.12 CE 2.2, 2.8, 2.10, 2.11, 2.12 CE 3.1, 3.7, 3.8, 3.10
PE3.6 Effective team membership and team leadership	I led as well as I acted as an active team player in the mentioned projects. This gave me an immense knowledge about team spirit, motivation and leadership	CE 1.4, 1.10 CE 2.2, 2.3

