ENGINEERING TECHNOLOGIST

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
ET1 KNOWLEDGE AND SKILL BASE		
ET1.1 Systematic, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the technology domain.	I used my conceptual understanding of electrical engineering to adhere to applicable standards while providing my solution I used my conceptual understanding of electrical engineering and knowledge of engineering benchmark tests to formulate appropriate solutions.	CE1.19, CE2.17, CE3.29 CE1.15, CE2.11, CE3.19
ET1.2 Conceptual understanding of the mathematics, numerical analysis, statistics, and computer and information sciences which underpin the technology.	I used my understanding of engineering mathematics and numerical analysis to size the solutions so that appropriate cable and breakers selection can be done to provide effective solution. I ensured usage of specialized software for knowledge management, information dissemination and documentation	CE1.16, CE2.12, CE3.16 CE2.13, CE3.17, CE3.23
ET1.3 In-depth understanding of specialist bodies of knowledge within the technology domain.	I provided cost-effective solutions using my knowledge of engineering to resolve outstanding issues. My understanding of the engineering standards helped in modifying parameters to ensure that project was compliant	CE1.11, CE1.14, CE2.8, CE2.9, CE3.12 CE1.19, CE2.17, CE3.28
ET1.4 Discernment of knowledge development within the technology domain.	I received specialized training from manufacturers explaining the system specifications and utilization. I researched internet sources read industrial journals and studied manufacturer's manuals to ensure that my solution followed acceptable engineering practices.	CE1.25, CE1.26, CE3.26 CE1.18, CE1.23, CE2.15, CE2.26
ET1.5 Knowledge of contextual factors impacting the technology domain.	I effectively planned project management execution so the tasks were delivered timely. I utilized computer software to monitor and track the project I managed cost savings without compromising quality of work, I ensured regular meeting with my team for managing project proactively.	CE1.17, CE1.19, CE2.20, CE2.21, CE3.29 CE1.28, CE1.29, CE1.35, CE2.15, CE2.21
ET1.6 Understanding of the scope, principles, norms, accountabilities and bounds of contemporary engineering practice in the technology domain.	I ensured following of engineering safety procedures, assured appropriate safety training for workers and safety gear wearing while on work site. Clear Entry/Exit signs were provide for navigating on worksite. I ensured best engineering methods and practices and managed costs. I managed my projects, provided effective solutions for timely delivery.	CE1.24, CE2.18, CE2.19, CE3.25 CE1.34, CE1.36, CE2.15, CE3.32
ET2 ENGINEERING APPLICATION ABILITY		
ET2.1 Application of established engineering methods	I used my engineering knowledge to implement new solutions that met the required criteria at lower costs.	CE1.20, CE2.15, CE3.32, CE3.33

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to broadly-defined problem solving within the technology domain.	I ensured that my solution complied with applicable regional and engineering standards. I identified potential safety concerns, mitigated safety risk, and ensured that environmental concerns and health hazards of workers were appropriately handled.	CE1.19, CE1.23, CE2.17, CE2.22, CE3.28 CE1.24, CE2.18, CE2.19, CE3.24, CE3.25
ET2.2 Application of engineering techniques, tools and resources within the technology domain.	I used my engineering knowledge to identify the required rating of electrical components to meet the engineering standards I utilized engineering calculation to verify loading and power factors for choosing the right materials for my projects I undertook experimental procedures and tests to help resolve engineering problems resolution to the technology domain.	CE1.14, CE2.6, CE2.12, CE3.13 CE1.16, CE1.18, CE2.15, CE3.11 CE1.18, CE2.16, CE3.12, CE3.14,
ET2.3 Application of systematic synthesis and design processes within the technology domain.	I designed solutions and I also ensured that the required user requirements in the project would be fulfilled within budget limits. I identified the possible risks and aligned safeguards to provide safe working environment following prudent engineering practices I ensured that engineering specifications were appropriately recorded meeting the formal requirements.	CE1.11, CE2.17, CE2.21, CE3.10, CE3.11 CE1.24, CE2.18, CE2.19, CE3.25 CE1.30, CE2.13, CE3.17, CE3.23
ET2.4 Application of systematic approaches to the conduct and management of projects within the technology.	I worked as part of a team supervising my staff and the labour and coordinating with other teammates, subcontractors and vendors. I helped in ensuring that the project was completed within time. I managed cost optimization, reduced extra expenditures and helped in developing cost-efficient solutions. I actively managed the projects ensuring feasible and sustainable solutions where manageable	CE1.27, CE1.30, CE2.15, CE2.22, CE3.29 CE1.34, CE1.35, CE2.15, CE2.25, CE3.29 CE1.30, CE1.35, CE2.9, CE2.16, CE3.13, CE3.14
ET3 PROFESSIONAL AND PERSONAL ATTRIBUTES		
ET3.1 Ethical conduct and professional accountability.	I ensured compliance with industry and engineering standards and implemented safety for workers on site. I ensured equitable work distribution between the staff for optimizing work throughput	CE1.19, CE1.24, CE2.17, CE2.18, CE3.29 CE1.27, CE2.22, CE3.29
ET3.2 Effective oral and written communication in professional and lay domains.	I scheduled regular meetings with my team write status, progress reports and documentation and interacted with my team via reports, mail and through meetings. I had regular contact with senior team, peers and Client as well as main point of contact with the local authorities.	CE1.28, CE1.31, CE2.21, CE2.24, CE3.30 CE1.27, CE1.29, CE2.23, CE3.31
ET3.3 Creative, innovative and proactive demeanour.	I introduced innovative approaches that solved problems cost effectively. I assimilated newer techniques and methods in the project to help reduce costs and resolve issues	CE1.21, CE2.13, CE2.17, CE3.23 CE1.22, CE1.20, CE2.12, CE3.22,
ET3.4 Professional use and management of information.	I used engineering forums to apprise myself of newer methodologies and techniques and utilized secondary research to search for solutions applicable to my projects.	CE1.23, CE2.15, CE3.20

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	I managed documentation using software tools used professionally and ensured that all reporting and documentation is accessible via electronic sharing	CE1.30, CE2.13, CE3.22
ET3.5 Orderly management of self and professional conduct.	I enhanced my engineering knowledge by mentoring from my supervisors and consultants, learnt from my job experience and brainstormed with supervisors to refine my solutions. I had training opportunities to enhance my knowledge and apply newly learnt skills at work. I used industrial journals and engineering forums to upgrade my knowledge.	CE1.27, CE2.15, CE2.24, CE3.27 CE1.25, CE1.26, CE2.19, CE3.26
ET3.6 Effective team membership and team leadership.	I effectively worked with teammates to get my work done. I managed the available resources to efficient project delivery. I worked in close coordination with both the consultants and the client and effectively conveyed effectiveness of my solution to the stakeholders.	CE1.7, CE1.19, CE1.30, CE2.22, CE3.29 CE1.9, CE1.32, CE2.24, CE3.31