

Summary Statement of Competencies Claimed  
Engineering Technologist

**ENGINEERING TECHNOLOGIST**  
**Summary Statement**

Competency Element	A summary of how you have applied the element	Paragraph in the career episode(s) where the element is addressed
<b>ET1 KNOWLEDGE AND SKILL BASE</b>		
ET1.1 Systematic, theory-based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the technology domain	I understand the significance of knowledge flow throughout an engineer’s work. I used my educational background and applied my understanding from different fields in engineering. I improved and updated this knowledge through studying, researching and continuing development. I used different resources and books.	CE1.7,12,16,20,21 CE2.,12,13,16,20 CE3.8,16,18,20,24
ET1.2 Conceptual understanding of the mathematics, numerical analysis, statistics and computer and information sciences which underpin the technology domain	I used my knowledge and understanding in math, basic sciences, computer, and information sciences. I performed calculations, developed forms, and conducted studies and analysis in my engineering activities.	CE1.18 CE2.8,15 CE3.8,18,20
ET1.3 In-depth understanding of specialist bodies of knowledge within the technology domain	Regarding indication of deep understanding in this field, using my experiences as an engineering technologist is a good indicator. I used my experiences in solving different issues and problems.	CE1.20 CE2.6,10,17 CE3.21,24
ET1.4 Knowledge of contextual factors impacting the technology domain	I in some points prepared job descriptions and even managed other human resources directed toward the team activities. I applied my engineering knowledge and understanding in the best manner. I used my engineering knowledge and management experiences.	CE1.10,13,14,20 CE2.10,11,12 CE3.14,16,24
ET1.5 Understanding of the scope, principles, norms, accountabilities and bounds of contemporary engineering practice in the technology domain	I am aware of the safety standards, environmental concerns, and costs management within the framework of an engineering project. I applied my experiences and consultation toward well application of safety standards and environmental standards.	CE1.9,18 CE2.8,10,11,17,18 CE3.14,22

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ET2 ENGINEERING APPLICATION ABILITY		
ET2.1 Application of established engineering methods to broadly-defined problem solving within the technology domain	I used engineering methods, research works, books, standards, references, and resources in tackling problems within projects. I applied my deep understanding in issues that I had long time experience. I never hindered from consultation and using the teamwork magic.	CE1.7,14,15,21 CE2.10,12,14,16,20 CE3.8,9,11,20,22
ET2.2 Application of engineering techniques, tools and resources within the technology domain	I applied lab results, engineering techniques, books and resources toward my engineering activities and objectives realization. I understand the importance of risk management in an engineering work scale.	CE2.7,14 CE3.7,14,17
ET2.3 Application of systematic synthesis and design processes within the technology domain	<p>I researched about the most update resources and papers in the design and stabilization of variant slopes design and selection final and effective factors.</p> <p>I designed proper system and capacity for discharge of air from underground mine tunnels from explosive gases and particles considering the complexity of tunnels pattern.</p> <p>I followed related standards to the mineral processing and mechanical engineering to design and make mineral equipment.</p>	<p>CE1.5,6,7,11,12,13,14</p> <p>CE2.7,10,11,13,16</p> <p>CE3.10,11,13,19,22</p>

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ET3 PROFESSIONAL AND PERSONAL ATTRIBUTES		
ET3.1 Ethical conduct and professional accountability	I understand ethical conduct and professional accountability in the field of practice and I stick to the established norms and standards in the field. I cared for the safety in the engineering project in my own activities and the total engineering activities within the project.	CE1.6,9,11,18 CE2.8,10,11 CE3.14
ET3.2 Effective oral and written communication in professional and lay domains	I followed professional communication through emails, reports, and oral presentation and discussion in meetings.	CE1.12,13,14 CE2.9,10,13,16 CE3.15,17,19
ET3.3 Creative, innovative and proactive demeanour	I understand the importance of following a creative approach in engineering activities so that in bottlenecks and unsolvable looking problem, we could find a way. Throughout projects and my engineering activities, I kept such spirit always high.	CE1.7,14,15,21 CE2.10,12,14,16,20 CE3.8,9,11,20,22
ET3.4 Professional use and management of information	I understand the importance of professional use and management of information and keeping the flow of information within the engineering activities and especially decision makings. For this purpose, I made data bases or used the company database from old projects. I kept good deal of information accessible by all team members so that we could share and apply new information toward engineering activities within the project.	CE1.5,9 CE2.6 CE3.5,7,9,13
ET3.5 Orderly management of self, and professional conduct	I conducted the best approach toward easy management of cost and time as two important factors in any engineering project. I understood how cost and time are relevant to one another. I kept track of time used toward every single engineering activity. I used MS Project software often.	CE1.10,21 CE2.11,12,20 CE3.7,14,20,22,23,24,
ET3.6 Effective team membership and team leadership	I am bound to engineering activities within a team setting. I believe without a team, there will be many problems in the way of a coherent engineering work toward objectives of a project. I preached teamwork and I was a team member and team leader at times. I kept the	CE1.10,13,14,20,21 CE2.10,11,12 CE3.14,16,24

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	spirit of teamwork and mentored and was open to being mentored by others. I valued professional team activities and tried to understand the other team members and engineers' concerns.	
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