

Summary Statement of Competencies Claimed
Chemical Engineering Professional

Competency Element	A brief summary of how you have applied the element	Paragraph in the career episode(s) where the element is addressed
PE1 KNOWLEDGE AND SKILL BASE		
<p>PE1.1 Comprehensive, theory-based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline</p>	<p>I applied my long time chemical engineering knowledge as well as studies that I had to do during every project different steps. For example, in episode 01, I applied my knowledge of materials in selecting the type of proper materials resistant to corrosion and inexpensive according to the customer budget. In other episodes, also I have demonstrated my application of theories and engineering basics.</p>	<p>CE1.7,10,16,19 CE2.16,18,21,25 CE3.11,20,24</p>
<p>PE1.2 Conceptual understanding of the mathematics, numerical analysis, statistics and computer and information sciences which underpin the engineering discipline</p>	<p>It is necessary to apply computer technology and software in today engineering world as the fastest period in history regarding technology growth; analysis, math and statistics also were not an exception for me; I as a professional chemical engineering have applied these tools as the basics of engineering discipline.</p>	<p>CE1.6,10,12,19 CE2.12,22 CE3.11,13,22</p>
<p>PE1.4 Discernment of knowledge development and research directions within the engineering discipline</p>	<p>Basically, I could not and have never worked in any project ever without doing at least a minimum search or research basics to make sure of decisions I make throughout the projects.</p>	<p>CE1.8,18,20,24 CE2.9,20,22 CE3.20</p>
<p>PE1.5 Knowledge of contextual factors impacting the engineering discipline</p>	<p>Working with others in different projects is inevitable and this duty as in some projects was assigned to</p>	<p>CE1.11,17,24 CE2.13,19,25</p>

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	me as part of my job description to determine set of responsibilities and duties for other team workers and even supervise them. I applied my knowledge of human resources mostly experience based.	CE3.7,19,24
PE1.6 Understanding of the scope, principles, norms, accountabilities and bounds of contemporary engineering practice in the specific discipline	I always strictly followed standards and code in engineering as required by every different project in different fields. I understand the importance of safety and have been bound with safety precautions and following safe engineering practice.	CE1.10,12,16 CE2.23 CE3.16,22,23
PE2 ENGINEERING APPLICATION ABILITY		
PE2.1 Application of established engineering methods to complex engineering problem solving	As described in career episodes, I followed different strategies and methods in projects. I worked in a team setting so I needed to consult either with my team members or manager. I used suitable methods and strategies encountering different type of problems.	CE1.7,12,14,21 CE2.8,9,19,21,22 CE3.11,23
PE2.2 Fluent application of engineering techniques, tools, and resources	I studied and searched the sources related to project management such as books, internet, standards, software manuals, and other project documents to do my work better. I applied variety of engineering tools and techniques. I studied new books during every project.	CE1.10,12,16 CE2.11,18,22,23 CE3.10,11,16,18,22,23
PE2.4 Application of systematic approaches to the conduct and management of engineering projects	Regarding systematic approaches to handle the activities within a project, my procedures I defined or got my plan in the initiation of project and later for systematic	CE1.17,18 CE2.15,19,20 CE3.19,20

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	<p>handling of each step, I prepared reports, I used Microsoft Office or Excel for classifying details and I always followed a kind of predetermined manner and outlines so that I could keep records of project procedure for problems solution or future references.</p>	
PE3 PROFESSIONAL AND PERSONAL ATTRIBUTES		
<p>PE3.1 Ethical conduct and professional accountability</p>	<p>I cared about environmental factors and safety important topics as a professional chemical engineer. I tried to keep an eye on the environmental aspects of our activities within a project.</p>	<p>CE1.10,12,21 CE2.23 CE3.16</p>
<p>PE3.2 Effective oral and written communication in professional and lay domains</p>	<p>Within meetings that we held for communication and progress of projects, I applied effective communication methods including brainstorming to get ideas from other team colleagues. I used techniques and methods.</p>	<p>CE1.6,11 CE2.7,9,13,19,21 CE3.5,9,13</p>
<p>PE3.3 Creative, innovative and proactive demeanor</p>	<p>An engineer who is not creative and innovative cannot figure out how to handle difficult situations and problems during the projects. I applied my creativity and innovation during different steps of projects.</p>	<p>CE1.21 CE2.18,23,25 CE3.11,23</p>
<p>PE3.4 Professional use and management of information</p>	<p>Normally I had this pre-start phase during the projects that I collected bulk of information that I required from different resources as available to me.</p>	<p>CE1.6 CE2.19 CE3.19</p>
<p>PE3.6 Effective team membership and team leadership</p>	<p>Either as a team member or partner,</p>	

