APEC ENGINEER REGISTER
ENGINEERING PRACTICE REPORT

Name of Candidate: Date of Application:
Professional Discipline: Civil Engineering

Career Episode Title: *Construction of the Community College* **Dates of Career Episode:** *August 2008 to August 2010 (24 Months)*	**Competency Elements Claimed**
CE 1.1 Introduction This additional career episode summarizes my experiences for this project as member of the Construction Supervision & Management Team/Client Representative. I was assigned as a Site Project Engineer at the same time a Quantity Surveyor for the Construction of Prince Sattam Bin Abdulaziz University former Al Aflaj University under the ministry of higher education and 300km from Riyadh. My main duties were initiated the quality program to ensure the project meets the required standards and specification specified in the contact agreements for the civil works and I was the one who evaluated & initially approved the work done/invoice accomplished of the general contractor to be paid by ministry.	***PC2.2a***
CE 1.2 Background The project was started in 2008 and I was the first staff who has been assigned in the project supervising team. The project has three packages, 1st. The Community College 3-storey Building, 2nd. The general site / infrastructure works, and 3rd. Housing / Accommodation Buildings.	

Site area is about 150,000 sq. m and the gross floor area 44,000 sq. m., with the project value of SAR300 Million and the contract type was lump sum. Most of my involvement in the project was managing the reports and documents of quality and controls non-conformance which was interpreted in invoicing and cannot claim any accomplish work if ever there was an open noncompliance report (NCR). I also monitored / evaluated the works performances base on the approved design/drawings to ensure the project outcome in relation with the appropriate usage of tools that didn't affect the environment.	***PC2.2b*** ***PC2.4c***
CE 1.3 Identifying the Cause of the Problem Contractor suggests changing the design of the suspended slab from waffle slab to post tension slab. This was good to save time or improve the schedule of work. In the implementation the effect the utilities embedded to the slab need to coordinate or re-routing. My project manager instructed me to do exercise to determine and implication of the effect the suggestion of its idea to the project program or outcome schedule. And manages this in an advance sustainable process.	***PC2.6a*** ***PC2.8e***
CE 1.4 Analysis of Possible Solutions Suggesting how to improved time schedule of the project, seeking a possible redesign of the structure to come-out with faster time. We need to consider all aspects of the construction and all the incorporated to this element not only the structure involve. I initiated to coordinate or communicate other discipline to come a realistic project progress to satisfy the project team, contractor and client not to compromise the standard or the regulation. And to achieved the agreed commercial proposal and not affect the structure stability and improved the community development outcomes. Also, I outlined an asset performance parameters in consultation with other discipline or concern division and opportunities that effect decisions that had engineering implications.	***PC2.6f*** ***PE1A.3g*** ***PC2.9a*** ***PC3.3a***

CE 1.5 Project Planning and Implementation Project construction run smoothly as per the design and specification due to my very strict policy to monitor and review works to be implemented in line with the plan, programs and budget. I passed or trained some techniques to my colleagues in implementing conditional monitoring of activity to be easily understand by others. In implementing I informed the management team on engineering option to gain our involvement in the development of the engineering solution to resolve some issue regarding the conflict ideas.	***PC2.8b*** ***PC2.9d*** ***PC3.3d***
CE1.6 Summary The project was not yet finish when I left the company. In my experience as one of the Supervision & Management Team this project has honed me in the area of a) Identifying/Enumerate the probable financial resources to promote innovation; b) developed my monitoring and contribution to a market plan for engineering practice/application; c) gained knowledge in seeking and establishing engineering business opportunities to share your knowledge; and d) understood the roles and responsibilities how difficult to balance the standard and the reality as a part in supervising project management team.	***PC3.1d*** ***P1A.1f*** ***P1A.3c***
Signature of Candidate:	
Candidate's Verifier: Name Signature: Engineering Qualifications:	

APEC ENGINEER REGISTER PROJECT
ENGINEERING PRACTICE REPORT
SELF ASSESSMENT

UNIT PC1	CONTRIBUTES TO THE DEVELOPMENT OF ENGINEERING PRACTICE	Self-Assessment	
ELEMENTS: (ALL THESE ELEMENTS MUST BE ADDRESSED)			
PC1.1	Provides significant contributions to science and practice of engineering	☐ YES	☒ NO
PC1.2	Leads engineering practice in area of specialization	☐ YES	☒ NO

UNIT PC2	LEADS/MANAGES SIGNIFICANT PROJECTS	Self-Assessment	
ELEMENTS: (ALL THESE ELEMENTS MUST BE ADDRESSED)			
PC2.1	Interpret project scope	☐ YES	☒ NO
PC2.2	Manage project quality, safety and risk	☒ YES	☐ NO
PC2.3	Implement planning and design process	☐ YES	☒ NO
PC2.4	Review the design outcomes in operation	☒ YES	☐ NO
PC2.5	Prepares and maintain documentation during the design process	☐ YES	☒ NO
PC2.6	Manages time and progress	☒ YES	☐ NO
PC2.7	Review the design to achieve acceptance	☐ YES	☒ NO
PC2.8	Manages work priorities and resources	☒ YES	☐ NO
PC2.9	Manages the assets within the operation/system	☒ YES	☐ NO

UNIT PC3	DEMONSTRATES ENGINEERING LEADERSHIP	Self–Assessment	
ELEMENTS: (ALL THESE ELEMENTS MUST BE ADDRESSED)			
PC3.1	Facilitates innovation	☒ YES	☐ NO
PC3.2	Promotes the engineering profession	☐ YES	☒ NO
PC3.3	Provides significant engineering contributions to community	☒ YES	☐ NO
PC3.4	Encourages and manages workplace change	☐ YES	☒ NO
PC3.5	Motivates and mentors other	☐ YES	☒ NO

UNIT PE1A	MANAGES ENGINEERING BUSINESS/ORGANIZATIONAL OUTCOME	Self-Assessment	
AT LEAST TWO ELEMENTS MUST BE ADDRESSED FROM THE FOLLOWING:			
PE1A.1	Establishes engineering business/organization direction	☒ YES	☐ NO
PE1A.2	Manages a multi-disciplined team	☐ YES	☒ NO
PE1A.3	Leads and manages the engineering business/organization	☒ YES	☐ NO

UNIT PE1B	RESEARCH AND DEVELOPMENT	Self-Assessment	
AT LEAST TWO ELEMENTS MUST BE ADDRESSED FROM THE FOLLOWING:			
PE1B.1	Identifies opportunities for new or improved processes and / or products/materials	☐ YES	☒ NO
PE1B.2	Identifies the resources required for R & D	☐ YES	☒ NO
PE1B.3	Initiates concept developments	☐ YES	☒ NO
PE1B.4	Gains commitments to the R&D proposal	☐ YES	☒ NO
PE1B.5	Ensures research is undertaken	☐ YES	☒ NO
PE1B.6	Collaborates in the application or potential commercialization of research outcome	☐ YES	☒ NO

APPLICANT NAME: _____ SIGNATURE: _____ APO/DATE: PICE / _____