

## EDITED KSAPC LISTING

CLASSIFICATION: ENGINEER, CIVIL

*NOTE: Each position within this classification may perform some or all of these KSAPCs.*

<b>KSAPC Statements</b>	
<b>Knowledge of:</b>	
K1.	Basic knowledge of principles and practices of civil engineering to perform design, project management, consulting and construction support.
K2.	Basic knowledge of surveying in order to prepare site contour maps.
K3.	Basic knowledge of hydraulics to design water related projects.
K4.	Comprehensive knowledge of engineering mathematics to perform various design calculations.
K5.	Basic knowledge of stress analysis and design of simple structures to perform structure design.
K6.	Basic knowledge of strength, properties of the materials to determine structural components in a design.
K7.	Basic knowledge of common descriptions of real property to support institution staff.
K8.	Basic knowledge of hydrology to perform drainage related projects.
K9.	Basic knowledge of valuation methods, procedure and terminology to select materials in design.
K10.	Basic knowledge of current building codes and industry standards to perform design.
K11.	<b>Basic knowledge of using computers and software (e.g., Microsoft Office, AutoCAD, etc.) to effectively prepare various construction documents.</b>

*KSAPCs highlighted in bold text are not currently on the SPB classification specification*

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<b>KSAPC Statements</b>	
<b>Skill in:</b>	
S1.	Design, mapping and drafting in order to prepare construction plans.

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<b>KSAPC Statements</b>	
<b>Ability to:</b>	
A1.	Perform mapping and drafting to provide accurate site plans.
A2.	Prepare detailed plans and specifications in order to provide construction documents.
A3.	Perform technical research work and make detailed analysis to recommend solutions to the institution staff on issues.
A4.	Keep necessary records for institution usage and future projects reference.
A5.	Prepare complete and comprehensive reports to support the branch operation.
A6.	Inspect construction projects make neat and accurate notes and computations to ensure quality of construction and records.
A7.	Establish and maintain cooperative working relations in order to enhance communication.
A8.	Prepare clear and concise reports to provide useful information to the readers.
A9.	Analyze situations accurately and adopt an effective course of action.
A10.	Communicate effectively in order to exchange and/or provide information and/or direction to others.