TSC Category	Engineering Construction, Operations and Maintenance					
TSC	Engineering Safety Standards Interpretation					
TSC Description	Design and implement appropriate safety and safeguarding engineering solutions standards in accordance with legislative requirements and industry best practices					
TSC Proficiency Description	**Level 1**	**Level 2**	**Level 3**	**Level 4**	**Level 5**	**Level 6**
			EGS-EPM-3017-1.1-1	**EGS-EPM-4017-1.1-1**	**EGS-EPM-5017-1.1-1**	
			Interpret engineering safety and safeguarding standards to conduct safety reviews and implement safety controls for equipment, components and systems	Analyse engineering safety and safeguarding standards to supervise the selection of the most relevant and appropriate standards for complex engineering projects and continuous improvement projects	Validate safety and safeguarding engineering solutions in accordance with legislative requirements and industry best practices	
Knowledge			• Engineering safety standards principles and practices • Design engineering safeguarding principles and practices • Principles of failure mode and effects analysis (FMEA) • Safety engineering codes and standards	• Engineering safety standards principles and practices • Design engineering safeguarding principles and practices • Quantitative and qualitative analysis techniques	• Local and international engineering safety standards and codes • Equipment safety certification standards • Safety and reliability including problematic risk assessment methods • Design engineering preventive techniques • Equipment redundancy and backup techniques	
Abilities			• Interpret engineering safety and safeguarding standards • Implement engineering safety standards for existing systems and equipment • Implement safety and safeguarding engineering solutions • Apply industry and organisational engineering safety standards and codes • Conduct safety reviews for equipment, components and systems	• Analyse and select relevant and appropriate engineering safety and safeguarding standards and codes to meet project objectives • Identify possible conflicts of standards and recommend solutions • Recommend safety and safeguarding engineering solutions • Conduct safety reviews for equipment, components and systems	• Validate the implementation of safety and safeguarding standards in accordance with local and international legislative requirements and industry best practices • Deploy advanced techniques and modelling techniques for safety reviews • Evaluate the effectiveness and reliability of safety control and safeguarding systems • Evaluate preventive techniques and practices	

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					for systems and equipment • Drive continuous improvement teams in the design and implementation of engineering safety improvements	