

TSC Category	Engineering Design and Project Management					
TSC	Engineering Project Management					
TSC Description	Manage engineering projects and coordinate with project teams and stakeholders to achieve project outcomes and objectives					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			ECM-EPM-3003-1.1	ECM-EPM-4003-1.1	ECM-EPM-5003-1.1	
			Interpret project management workflows and practices including project execution plans, scheduling, critical milestones, front-end engineering designs, procurement, commissioning, start-up and quality assurance, to support an engineering project	Establish project management workflows and procedures including project execution plans, scheduling, critical milestones, front-end engineering designs, procurement, commissioning, start-ups and quality assurance to achieve project outcomes and objectives	Drive the achievement of project outcomes, objectives and quality with stakeholders, including strategic project development and planning, project finance management, conflict management and project risk management	
Knowledge			<ul style="list-style-type: none"> • Engineering design codes and standards • Project management theory, principles and practices • Methods in determining scope of work and critical path items • Workflow for engineering, procurement, construction, commissioning and start-up • Methods of testing and inspection • Methods of interfacing with third-party suppliers and impact on project schedules • Resource scheduling and management principles • Project close-out methods 	<ul style="list-style-type: none"> • Engineering design codes and standards • Project life cycle principles • Risk management principles • Types of project software applications • Project management policies and procedures • Budgeting and estimating principles and techniques • Methods of reviewing quality assurance and quality control within a project • Methods of managing third-party interfaces and impact on project schedules 	<ul style="list-style-type: none"> • Project strategy development, planning and execution techniques • Project planning and control methods • Project finance management methods • Conflict management and dispute resolution methods • Procurement, contract management and contract law • Detailed engineering, procurement, construction, commissioning and start-up activities 	

<p>Abilities</p>			<ul style="list-style-type: none"> • Interpret project management workflows and practices including project execution plans, scheduling, critical milestones, front-end engineering designs, procurement, commissioning, start-ups and quality assurance • Provide discipline specific technical support in the development and execution of projects • Interpret and apply engineering standards • Provide discipline specific knowledge in the identification of project risks and mitigation plans • Develop project plans, schedules and updates • Conduct project risk analyses and technical evaluations • Interface with third-party suppliers ensuring conformance to project scope requirements and delivery timelines • Conduct inspection and testing activities in line with third-party contract obligations • Coordinate resources in line with project plans and timelines 	<ul style="list-style-type: none"> • Provide inputs to the development and execution of projects • Provide advanced discipline specific knowledge to support projects and project teams • Review project risk analyses and technical evaluations • Review project execution by project teams • Provide project budget performance data • Monitor quality assurance and quality control of project milestone deliverables • Review project plans, schedules and updates • Review performance of third-party suppliers • Review inspection and testing activities in line with third-party contract obligations • Review resources in line with project plans and timelines 	<ul style="list-style-type: none"> • Review the development and safe execution of engineering projects • Direct scheduling and project control activities • Review project budget performance data • Oversee and manage contracts and subcontracts • Review quality assurance and quality control of project milestone deliverables • Evaluate project risk analyses and technical evaluations 	
-------------------------	--	--	--	---	--	--