

Skills Framework for Engineering Services

Overview of Technical Skills & Competencies (TSC)

TSC Category	TSC Title	Proficiency Levels					
		Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Business and Organisational Management	Continuous Improvement Management						
	Organisational Risk Management						
	Organisational Resource Management						
	Quality System Management						
	Strategy Development						
Business Development	Business Negotiation						
	Business Presentation Delivery						
	Business Proposal Writing						
	Market Research						
Business Finance	Budgeting						
	Cost Management						
Discipline Engineering Specialisation	Civil and Structural Engineering Management						
	Electrical Engineering Management						
	Geotechnical Engineering Management						
	Instrumentation and Control Design Engineering Management						
	Mechanical Engineering Management						
Engineering Construction, Operations and Maintenance	Asset Management						
	Commissioning and Start-Up Management						
	Condition-based Assets Monitoring Management						
	Engineering Safety Standards Interpretation						
	Equipment and Systems Repair						
	Equipment and Systems Testing						
	Equipment Maintenance and Housekeeping						
	Facility Maintenance						
	Installation and Assembly						
	Maintenance Scheduling						
	Maintenance Strategy Management						
	Preventive Maintenance						
	Structural Testing						
	Systems Integration						
	Technical Inspection						
	Test Planning						
	Engineering Design Management	3D Modelling					
Design for Safety							
Engineering Drawing and Design Specification							
Engineering Drawing Interpretation and Management							
Front-End Engineering and Design							
Reliability Engineering Management							
Sustainable Engineering							
General Management	Business Performance Management						
	Change Management						
	Conflict Resolution						
	Stakeholder Management						
	Technical Writing						
Health, Safety and Environment (HSE) Management	Third Party Management						
	Environmental Management System Framework Development and Hazards and Risk Identification and Management						
People Development	Learning and Development						
	Staff Management						
Procurement Management	Contract Development and Management						
	Inventory Management						
	Materials Inspection						
	Procurement Coordination and Policy Development						
	Procurement Performance Monitoring						
Project Finance	Capital Expenditure and Investment Evaluation						
	Capital Raising						
	Financial Analysis						
	Financial Management						
	Financial Modelling						
	Valuation Approaches and Methodologies						
	Valuation Conclusion and Reporting						
Valuation Research and Analysis							
Project Management	Manpower Planning						
	Programme Management						
	Project Feasibility Assessment						
	Project Risk Management						
Technology Road Mapping	Artificial Intelligence Application						
	Building Information Modelling Application						
	Data and Statistical Analytics						
	Internet of Things Management						
	Robotic and Automation Technology Application						
	Technology Application						
Workplace Safety and Health (WSH) Management	Technology Road Mapping						
	Emergency Response Management						
	Workplace Safety and Health Culture Development						
	Workplace Safety and Health Framework Development and Implementation						