

Skills Framework for Energy and Chemicals

Programmes that broaden or deepen specific skills and knowledge for the various job roles in the sector

Engineering and Maintenance

Job Role:

Principal Engineer (Engineering)

Full Qualification Programmes	Providers
N/A	N/A

Technical Skills and Competencies (TSC)			Modular Programmes	Providers
Category	Title	Proficiency Level		
Discipline Engineering Support Management	Engineering Support Management	5	WSQ Restore High Voltage Outages	Singapore Institute Of Power And Gas Pte. Ltd.
			Restore High Voltage Outages	Sp Training And Consultancy Company Pte. Ltd.
Health, Safety and Environment Management	Environmental Management System Framework Development and Implementation	4	Environmental Management & Sustainable Development	Singapore University Of Social Sciences
Discipline Engineering Specialisation	Instrumentation and Control Design Engineering Management	5	Sensors and Instrumentation for Automation	National University of Singapore
			Industrial Control and IEC Programming	National University of Singapore
			Advances in Autonomous Systems	National University of Singapore
			Modelling of Mechatronic Systems	National University of Singapore
Technology Application Management	Robotic and Automation System Maintenance	5	Sensors and Instrumentation for Automation	National University of Singapore
	Robotic and Automation Technology Application	5	Advances in Autonomous Systems	National University of Singapore
			Sensors and Instrumentation for Automation	National University of Singapore
			Industrial Control and IEC Programming	National University of Singapore
Business and Organisational Management	Technical Presentation	6	Advances in Autonomous Systems	National University of Singapore
			Modelling of Mechatronic Systems	National University of Singapore
			Dynamics and Control of Robot Manipulators	National University of Singapore
Discipline Engineering Support Management	Technology Road Mapping	5	IP Asset Management	Singapore University Of Social Sciences
			IP & Business Strategy	Singapore University Of Social Sciences
			IP Intelligence	Singapore University Of Social Sciences
Health, Safety and Environment Management	Workplace Safety and Health Framework Development and Implementation	4	IP in R&D and Innovation	Singapore University Of Social Sciences
			Commercialising Innovation	Singapore University Of Social Sciences
			Assessing Technology	Singapore University Of Social Sciences
			Safety Management and Audit	Singapore University Of Social Sciences
			Risk Assessment and Management	Singapore University Of Social Sciences
Behavioural Based Safety	Singapore University Of Social Sciences			
Safety Standards, Legislations and Best Practices	Singapore University Of Social Sciences			
Fatigue Management	Singapore University Of Social Sciences			

Generic Skills and Competencies (GSCs)		Modular Programmes	Providers
Title	Proficiency Level		
Problem Solving	Advanced	IMPACT: Advanced Problem Solving & Decision Making Workshop	Capelle Academy Pte Ltd
		Apply Systems Thinking in Problem Solving and Decision Making	Service Quality Centre Pte Ltd
		Apply Systems Thinking in Problem Solving & Decision Making	Singapore National Employers Federation
		Apply Systems Thinking in Problem Solving and Decision Making	Ssa Consulting Group Pte Ltd
Developing People	Advanced	Engage People	Kaplan Professional
		Engage People	Seraphcorp Institute Pte Ltd
		Talent Management for Business Leaders	Smu-Centre For Professional Studies
		Engage People	William Angliss Institute Pte Ltd