

## Skills Framework for Energy and Chemicals

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

### Quality Assurance and Quality Control (QA&QC)

Job Role:

Senior Laboratory Technician/Technologist

Full Qualification Programmes	Providers
(Earn and Learn Programme) Specialist Diploma in Analytical Science	Ngee Ann Polytechnic
Post Diploma Certificate in Pharmaceutical Quality Systems	Ngee Ann Polytechnic
Specialist Diploma in Advanced Composites	Republic Polytechnic
Specialist Diploma in Formulation Science and Technology	Singapore Polytechnic
Advanced Diploma in Specialty Chemicals	Singapore Polytechnic

Technical Skills and Competencies (TSC)			Modular Programmes	Providers
Category	Title	Proficiency Level		
Quality Assurance and Quality Control Management	Analytical Method Validation	3	Validation	Ngee Ann Polytechnic
			QA and Documentation	Ngee Ann Polytechnic
			Gas Chromatography	Ngee Ann Polytechnic
			Liquid Chromatography	Ngee Ann Polytechnic
Business and Organisational Management	Continuous Improvement Management	3	Quality Assurance & Quality Control	Ngee Ann Polytechnic
Data Analytics	Data and Statistical Analytics	2	Validation	Ngee Ann Polytechnic
			QC Analytics	Ngee Ann Polytechnic
			QA and Documentation	Ngee Ann Polytechnic
Health, Safety and Environment Management	Environmental Management System Framework Development and Implementation	3	Chemical Safety	Ngee Ann Polytechnic
			Chemical Safety	Nanyang Polytechnic
Health, Safety and Environment Management	Incident Investigation Management	2	Chemical Safety	Nanyang Polytechnic
			Chemical Safety	Ngee Ann Polytechnic
			Quality Assurance & Quality Control	Ngee Ann Polytechnic
Laboratory Management	Laboratory Data Reporting and Analysis Management	3	cGMP Compliance	Ngee Ann Polytechnic
			Validation	Ngee Ann Polytechnic
			QC Analytics	Ngee Ann Polytechnic
			QA and Documentation	Ngee Ann Polytechnic
			Quality Assurance & Quality Control	Ngee Ann Polytechnic
Laboratory Management	Laboratory Equipment Maintenance and Calibration Management	3	QA and Documentation	Ngee Ann Polytechnic
			Gas Chromatography	Ngee Ann Polytechnic
			Liquid Chromatography	Ngee Ann Polytechnic
			Mass Spectrometry	Ngee Ann Polytechnic
Laboratory Management	Laboratory Operations Management	3	cGMP Compliance	Ngee Ann Polytechnic
			Quality Assurance & Quality Control	Ngee Ann Polytechnic
Quality Assurance and Quality Control Management	Materials Qualification	3	QC Analytics	Ngee Ann Polytechnic
			QA and Documentation	Ngee Ann Polytechnic
			Chemical Safety	Ngee Ann Polytechnic
			Gas Chromatography	Ngee Ann Polytechnic
			Environmental Testing	Ngee Ann Polytechnic
			Liquid Chromatography	Ngee Ann Polytechnic
			Mass Spectrometry	Ngee Ann Polytechnic
			Quality Assurance & Quality Control	Ngee Ann Polytechnic
Quality Assurance and Quality Control Management	Non-Conformance Management	3	cGMP Compliance	Ngee Ann Polytechnic
			QC Analytics	Ngee Ann Polytechnic
			Validation	Ngee Ann Polytechnic
			QA and Documentation	Ngee Ann Polytechnic
			Quality Assurance & Quality Control	Ngee Ann Polytechnic
Research and Development Management	Product Testing Management	3	cGMP Compliance	Ngee Ann Polytechnic
			QA and Documentation	Ngee Ann Polytechnic
			Chemical Safety	Ngee Ann Polytechnic
			Gas Chromatography	Ngee Ann Polytechnic
			Environmental Testing	Ngee Ann Polytechnic

			Liquid Chromatography	Ngee Ann Polytechnic
			Mass Spectrometry	Ngee Ann Polytechnic
			Quality Assurance & Quality Control	Ngee Ann Polytechnic
Quality Assurance and Quality Control Management	Quality Assurance Management	3	QC Analytics	Ngee Ann Polytechnic
			QA and Documentation	Ngee Ann Polytechnic
			Quality Assurance & Quality Control	Ngee Ann Polytechnic

Quality Assurance and Quality Control Management	Quality Control Management	3	QC Analytics	Ngee Ann Polytechnic
			QA and Documentation	Ngee Ann Polytechnic
			Quality Assurance & Quality Control	Ngee Ann Polytechnic
			Implement Process Quality [SAP]	Temasek Polytechnic
Laboratory Management	Sample Management	3	cGMP Compliance	Ngee Ann Polytechnic
			QA and Documentation	Ngee Ann Polytechnic
			Chemical Safety	Ngee Ann Polytechnic
			Gas Chromatography	Ngee Ann Polytechnic
			Environmental Testing	Ngee Ann Polytechnic
			Liquid Chromatography	Ngee Ann Polytechnic
			Mass Spectrometry	Ngee Ann Polytechnic
			Quality Assurance & Quality Control	Ngee Ann Polytechnic
Business and Organisational Development	Technical Report Writing	2	cGMP Compliance	Ngee Ann Polytechnic
			Validation	Ngee Ann Polytechnic
			QC Analytics	Ngee Ann Polytechnic
			QA and Documentation	Ngee Ann Polytechnic
			Chemical Safety	Ngee Ann Polytechnic
			Gas Chromatography	Ngee Ann Polytechnic
			Environmental Testing	Ngee Ann Polytechnic
			Liquid Chromatography	Ngee Ann Polytechnic
			Mass Spectrometry	Ngee Ann Polytechnic
Quality Assurance & Quality Control	Ngee Ann Polytechnic			
Health, Safety and Environment Management	Workplace Safety and Health Framework Development and Implementation	3	Chemical Safety	Ngee Ann Polytechnic
			Advanced Certificate in Workplace Safety and Health (Process Plant)	Ntuc Learninghub Pte. Ltd.
			Supervise Workplace Safety and Health in Process Plant	Avanta Global Pte. Ltd.
			WSQ Advanced Certificate in Workplace Safety and Health	Avanta Global Pte. Ltd.
			Supervise Workplace Safety and Health in Process Plant	Greensafe International Pte. Ltd.
			WSQ-ADVANCED CERTIFICATE IN WORKPLACE SAFETY AND HEALTH	Greensafe International Pte. Ltd.
			Supervise Workplace Safety and Health in Process Plant	Industrial Training Centre Pte. Ltd.
			Supervise Workplace Safety and Health in Process Plant	Institute Of Process Industry (Ipi) - A Division Of Aspri
			Supervise Workplace Safety and Health in Process Plant	Pec Ltd.
			Supervise Workplace Safety and Health in Process Plant	Pioneer Training Centre Pte. Ltd.
			Supervise Workplace Safety and Health in Process Plant	Qesh Consultants (Pte.) Ltd.
			Supervise Workplace Safety and Health in Process Plant	Simply Safety Pte. Ltd.
			Supervise Workplace Safety and Health in Process Plant	Singapore Institution Of Safety Officers (Siso) The
			Supervise Workplace Safety and Health in Process Plant	Tecs Fire & Safety Training Pte. Ltd.
			Supervise Workplace Safety and Health in Process Plant	Arise Services Pte. Ltd.
			Supervise Workplace Safety and Health in Process Plant	Ever Safe Consultants Pte. Ltd.
			Supervise Workplace Safety & Health in Process Plant	Absolute Kinetics Consultancy Pte Ltd
			Supervise Workplace Safety & Health in Process Plant	Ngee Ann Polytechnic

Generic Skills and Competencies (GSCs)		Modular Programmes	Providers
Title	Proficiency Level		
Teamwork	Intermediate	Support Team	Bootstrap Pte Ltd
		Facilitate Effective Work Teams (ES-IP302G-1)	Cambrian Academy Pte Ltd
		Synergizing for Success	Capelle Academy Pte Ltd
		Building a Results-Oriented Team	Capelle Academy Pte Ltd
		People Leadership Program	Capelle Academy Pte Ltd
		WSQ Facilitate Effective Work Teams	Eagle Infotech Consultants Pte Ltd
		Facilitate Effective Work Teams	Image Institute Of Learning And Development Pte Ltd
		One Dream - One Team: Manage Team Effectively	Image Institute Of Learning And Development Pte Ltd
		Support Team	Kaplan Professional
		Lead Team	Kaplan Professional
		Lead Team	Loyal Reliance Pte Ltd
		Facilitate Effective Work Teams	Mendaki Social Enterprise Network Singapore Pte Ltd

		Support Team	Mendaki Social Enterprise Network Singapore Pte Ltd		
		Lead Team	Mendaki Social Enterprise Network Singapore Pte Ltd		
		Support Team powered by John Maxwell	Ntuc Learninghub Pte Ltd		
		Lead Team	Ntuc Learninghub Pte Ltd		
		Building a High Performance Team (I)	Rohei Corporation Pte Ltd		
Teamwork	Intermediate	Art of Leadership: Influence & Manage your Team for Results	Rohei Corporation Pte Ltd		
		Support Team	Seraphcorp Institute Pte Ltd		
		Lead Team	Seraphcorp Institute Pte Ltd		
		Support Team	Service Quality Centre Pte Ltd		
		Support Team	Singapore Chinese Chamber Institute Of Business		
		Lead Team	Singapore Chinese Chamber Institute Of Business		
		Developing and Engaging Your Team for Workplace Success	Singapore Institute Of Management		
		Dynamic Planning and Execution for Managers	Singapore Institute Of Management		
		Develop A Work Team	Singapore National Employers Federation		
		Support Your Team Creatively	Singapore National Employers Federation		
		Facilitate Effective Work Teams	Ssa Consulting Group Pte Ltd		
		Develop a Work Team	Ssa Consulting Group Pte Ltd		
		Lead Team Leaders to Develop Business Strategies and Governance Management	Training Masters Workforce Institute Pte Ltd		
		Facilitate Effective Work Teams	Trillion Training (S) Pte Ltd		
Problem Solving	Intermediate	Solve Problems & Make Decisions at Supervisory Level	Absolute Kinetics Consultancy Pte Ltd		
		Solve Problems and Make Decisions at Supervisory Level	Avanta Global Pte Ltd		
		Solve Problems and Make Decisions at Supervisory Level	Capelle Academy Pte Ltd		
		Eradicating Problems and Making Effective Decisions	Capelle Academy Pte Ltd		
		Solve Problems & Make Decisions at Supervisory level	Cbm Pte Ltd		
		ES WSQ Solve Problems and Make Decisions at Supervisory Level (Level 3)	Civil Service College		
		Solve Problems and Make Decisions at Supervisory Level	Comat Training Services Pte Ltd		
		WSQ Solve Problems and Make Decisions at Supervisory Level	Eagle Infotech Consultants Pte Ltd		
		Solve Problems and Make Decisions at Supervisory Level	E-Square Communication And Management Training Consultancy		
		Solve Problems and Make Decisions at Supervisory Level	Ever Safe Consultants Pte Ltd		
		'Effective Problem Solving and Decision Making'	Everest Innovation Pte Ltd		
		Solve Problems and Make Decisions at Supervisory Level	Greensafe International Pte Ltd		
		ES WSQ Systematic Problem Solving & Decision Making (Supervisory Level)	Integrated Learning Systems Pte Ltd		
		Solve Problems and Make Decisions for Supervisors	Lighthouse Global Training And Consultancy Pte Ltd		
		Solve Problems and Make Decisions at Supervisory Level	Mendaki Social Enterprise Network Singapore Pte Ltd		
		Solve Problems and Make Decisions at Supervisory Level	Nanyang Polytechnic		
		Solve Problems and Make Decisions at Managerial Level (ES-ACE-402G-1)	Ntuc Learning Hub Pte Ltd		
		Solve Problems and Make Decisions at Supervisory Level (ES-ACE-302G-1)	Ntuc Learninghub Pte Ltd		
		Solve Problems and Make Decisions at Managerial Level	Service Quality Centre Pte Ltd		
		Innovative Problem Solving and Decision Making	Singapore Institute Of Management		
		Solve Problems and Make Decisions at Supervisory Level	Singapore National Employers Federation		
		Solve Problems and Make Decisions at Managerial Level	Singapore National Employers Federation		
		Solve Problems and Make Decisions at Supervisory Level	Singapore Polytechnic		
		Solve Problems & Make Decisions at Supervisory Level	Ssa Consulting Group Pte Ltd		
		Solve Problems and Make Decisions at Managerial Level	Ssa Consulting Group Pte Ltd		
		Solve Problems and Make Decisions at Supervisory Level	Trillion Training (S) Pte Ltd		
		Solve Problems and Make Decisions at Supervisory Level	U-Training Centre Pte Ltd		
		Facilitate Effective Communication and Engagement at the Workplace		Develop Self	Absolute Kinetics Consultancy Pte Ltd
				Develop Self	Bootstrap Pte Ltd
				People Leadership Program	Capelle Academy Pte Ltd

Communication	Intermediate	Leading through People	Capelle Academy Pte Ltd		
		Manage Self	Charles Mann Training And Consultancy Pte Ltd		
		Facilitate Effective Communication and Engagement at the Workplace	Comat Training Services Pte Ltd		
		Lead Workplace Communication and Engagement	Eben Consultants (Far East) Pte Ltd		
		Facilitate Effective Communication and Engagement at the Workplace	E-Square Communication And Management Training Consultancy		
		Decision Making & Self Mastery	Everest Innovation Pte Ltd		
		Be an Achiever: Manage Self	Image Institute Of Learning And Development Pte Ltd		
		ES WSQ Effective Interactive and Relationship Management (Supervisory)	Integrated Learning Systems Pte Ltd		
		ES-IP-301G-1 Facilitate Effective Communication & Engagement at the Workplace	Kaplan Professional		
		ES-IP-401G-1 Lead Workplace Communication and Engagement	Kaplan Professional		
Communication	Intermediate	Manage Self	Kaplan Professional		
		Develop Self	Kaplan Professional		
		Facilitate Effective Communication and Engagement at the Workplace	Mendaki Social Enterprise Network Singapore Pte Ltd		
		Manage Self	Mendaki Social Enterprise Network Singapore Pte Ltd		
		Develop Self	Mendaki Social Enterprise Network Singapore Pte Ltd		
		Facilitate Effective Communication and Engagement at the Workplace	Nanyang Polytechnic		
		Facilitate Effective Communication and Engagement at the Workplace	Ngee Ann Polytechnic		
		Lead Workplace Communication and Engagement	Ngee Ann Polytechnic		
		Facilitate Effective Communication and Engagement at the Workplace (ES-IP-301G-1)	Ntuc Learninghub Pte Ltd		
		Lead Workplace Communication and Engagement (ES-IP-401G-1)	Ntuc Learninghub Pte Ltd		
		Manage Self	Ntuc Learninghub Pte Ltd		
		Develop Self powered by John Maxwell	Ntuc Learninghub Pte Ltd		
		Facilitate Effective Communication and Engagement at the Workplace	Psb Corporation Pte Ltd		
		Manage Self	Raffles Skills Lab International Training Centre Pte Ltd		
		Manage Self	Seraphcorp Institute Pte Ltd		
		Develop Self	Seraphcorp Institute Pte Ltd		
		Facilitate Effective Communication and Engagement at the Workplace	Service Quality Centre Pte Ltd		
		Lead Workplace Communication and Engagement	Service Quality Centre Pte Ltd		
		Manage Self	Singapore Chinese Chamber Institute Of Business		
		Develop Self	Singapore Chinese Chamber Institute Of Business		
		Developing Self Effectiveness for Business Performance	Singapore Institute Of Management		
		The Facilitative Leader of Self-Managed Teams	Singapore National Employers Federation		
		Creative Leadership and Self Development Skills	Singapore National Employers Federation		
		Facilitate Effective Communication and Engagement at the Workplace	The National University Of Singapore Society		
		Develop Self to Maintain Professional Competence at Managerial Level	Training Masters Workforce Institute Pte Ltd		
		Facilitate Effective Communication and Engagement at the Workplace	Training Vision Institute Pte Ltd		
		Facilitate Effective Communication and Engagement at the Workplace (Contextualised)	Training Vision Institute Pte Ltd		
		Lead Workplace Communication and Engagement (Contextualised)	Training Vision Institute Pte Ltd		
		Lead workplace communication and engagement	Training Vision Institute Pte Ltd		
		Facilitate Effective Communication and Engagement at the Workplace	Trillion Training (S) Pte Ltd		
		Lead Workplace Communication and Engagement	Trust Management Centre		
		Sense Making	Intermediate	Manage Service Performance	Andalus Corporation Pte Ltd
				The Service Coach (Version B)	Capelle Academy Pte Ltd
Manage Service Performance	Kaplan Professional				
Manage Service Performance	Mendaki Social Enterprise Network Singapore Pte Ltd				
WSQ Manage Service Performance	Ntuc Learning Hub Pte Ltd				
Manage Service Performance	Service Quality Centre Pte Ltd				
Manage Service Operations and Performance	Singapore Chinese Chamber Institute Of Business				
Manage Service Performance	Training Vision Institute Pte Ltd				
Manage Service Performance	William Angliss Institute Pte Ltd				
		Cultivate Workplace Relationships	Alue Singapore Pte Ltd		

Interpersonal Skills	Intermediate	Emotional Intelligence: The Cutting Edge of Leadership	Capelle Academy Pte Ltd
		Enhancing Team Effectiveness	Capelle Academy Pte Ltd
		GROUP Excellence	Capelle Academy Pte Ltd
		Emotional Intelligence (EQ) for Top Performance at Work for Managers & Supervisors	Ceq Asia Pte Ltd
		Build Team Relationships	Charles Mann Training And Consultancy Pte Ltd
		WSQ Apply Emotional Competence to Manage Self and Team	Eagle Infotech Consultants Pte Ltd
		Bond to Excel: Cultivate Workplace Relationship	Image Institute Of Learning And Development Pte Ltd
		Build Team Relationships	Kaplan Professional
		Cultivate Workplace Relationships	Kaplan Professional
		Apply Emotional Competence to Manage Self and Team	Mendaki Social Enterprise Network Singapore Pte Ltd
		Build Team Relationships	Mendaki Social Enterprise Network Singapore Pte Ltd
		Build Team Relationships powered by John Maxwell	Ntuc Learninghub Pte Ltd
		Cultivate Workplace Relationships powered by John Maxwell	Ntuc Learninghub Pte Ltd
		Leading for Results	Ode Consulting Pte Ltd
		Interpersonal Skills	Intermediate
WSQ Emotional Intelligence @ Work for Managers	Rohei Corporation Pte Ltd		
WSQ Emotional Intelligence @ Work for Managers - 16hr	Rohei Corporation Pte Ltd		
Advance your Influence & Communication Skills with Emotional Intelligence (Includes follow-up Group Coaching session)	Rohei Corporation Pte Ltd		
Advance Your Influence & Communication Skills with Emotional Intelligence	Rohei Corporation Pte Ltd		
Build Team Relationships	Seraphcorp Institute Pte Ltd		
Cultivate Workplace Relationships	Seraphcorp Institute Pte Ltd		
Build Team Relationships	Service Quality Centre Pte Ltd		
Build Team Relationships	Singapore Chinese Chamber Institute Of Business		
Cultivate Workplace Relationships	Singapore Chinese Chamber Institute Of Business		
Mastering Personal Effectiveness and Emotional Competence	Singapore Institute Of Management		
The Job of the Manager (JOMAN): Essential Managerial Techniques	Singapore Institute Of Management		
Apply emotional competence to manage self & others in business context (SD)	Singapore Institute Of Retail Studies (Sirs)		
Apply Emotional Competence to Manage Self and Others in a Business Context	Singapore National Employers Federation		
Build Positive Team Relationships	Singapore National Employers Federation		
Cultivate Workplace Relationships to Optimise Team Performance	Singapore National Employers Federation		
Apply Emotional Competence to Manage Self and Team	Ssa Consulting Group Pte Ltd		
Apply Emotional Competence to Manage Self and Others in a Business Context	Ssa Consulting Group Pte Ltd		
Cultivate Workplace Relationships and Diversity	Training Masters Workforce Institute Pte Ltd		