

Skills Framework for Energy and Chemicals

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

Research and Development (R&D)

Job Role:

Senior R&D Chemist

Full Qualification Programmes	Providers
Master of IP & Innovation Management	Singapore University Of Social Sciences

Technical Skills and Competencies (TSC)			Modular Programmes	Providers
Category	Title	Proficiency Level		
Research and Development Management	Applied Research and Development Management	5	Patent Information & Search	Singapore University Of Social Sciences
			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
			Monetising Innovation: Taxation & Valuation	Singapore University Of Social Sciences
Business and Organisational Management	Business Networking Management	5	Patent Information & Search	Singapore University Of Social Sciences
			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
			Monetising Innovation: Taxation & Valuation	Singapore University Of Social Sciences
Business and Organisational Management	Change Management	4	Safety Management and Audit	Singapore University Of Social Sciences
			Risk Assessment and Management	Singapore University Of Social Sciences
			Environmental Management & Sustainable Development	Singapore University Of Social Sciences
			Accident and Incident Investigation	Singapore University Of Social Sciences
			Behavioural Based Safety	Singapore University Of Social Sciences
			Safety Standards, Legislations and Best Practices	Singapore University Of Social Sciences
Business and Organisational Management	Continuous Improvement Management	4	Fatigue Management	Singapore University Of Social Sciences
			Quality Assurance & Quality Control	Ngee Ann Polytechnic
			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
			Cognitive Systems Engineering	Singapore University Of Social Sciences
Health, Safety and Environment Management	Environmental Management System Framework Development and Implementation	3	Safety, Risk and Resilience Engineering	Singapore University Of Social Sciences
			Chemical Safety	Ngee Ann Polytechnic
Laboratory Management	Laboratory Data Reporting and Analysis Management	5	Chemical Safety	Nanyang Polytechnic
			IP in R&D and Innovation	Singapore University Of Social Sciences
Research and Development Management	Product Design and Development	5	Patent Information & Search	Singapore University Of Social Sciences
			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
			Monetising Innovation: Taxation & Valuation	Singapore University Of Social Sciences
Research and Development Management	Product Testing Management	5	Assessing Technology	Singapore University Of Social Sciences
Business and Organisational Management	Project Management	5	Patent Information & Search	Singapore University Of Social Sciences
			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
			Monetising Innovation: Taxation & Valuation	Singapore University Of Social Sciences
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
			Patent Information & Search	Singapore University Of Social Sciences
Business and Organisational Management	Technical Presentation	5	IP in R&D and Innovation	Singapore University Of Social Sciences
			Assessing Technology	Singapore University Of Social Sciences
			Monetising Innovation: Taxation & Valuation	Singapore University Of Social Sciences
			Chemical Safety	Ngee Ann Polytechnic

Health, Safety and Environment Management	Workplace Safety and Health Framework Development and Implementation	3	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.
Health, Safety and Environment Management	Workplace Safety and Health Framework Development and Implementation	3	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
			Health, Safety and Environment Management	Workplace Safety and Health Hazard Identification and Risk Control Management
Risk Assessment and Management	Singapore University Of Social Sciences			
Accident and Incident Investigation	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			
Occupational Biomechanics	Singapore University Of Social Sciences			
Workplace Evaluation and Design	Singapore University Of Social Sciences			
Cognitive Systems Engineering	Singapore University Of Social Sciences			
Safety, Risk and Resilience Engineering	Singapore University Of Social Sciences			
Environmental Hazards and Toxicology	Singapore University Of Social Sciences			

Generic Skills and Competencies (GSCs)		Modular Programmes	Providers
Title	Proficiency Level		
Creative Thinking	Advanced	WSQ Innovate The Customer Experience	At-Sunrice Globalchef Academy Pte Ltd
		WSQ Leading Service Innovation	Institute Of Systems Science, National University Of Singapore
		Innovate the Customer Experience	Service Quality Centre Pte Ltd
		Innovate the Customer Experience (24 HRS)	Training Vision Institute Pte Ltd
Sense Making	Advanced	WSQ Service Analytics	Institute Of Systems Science, National University Of Singapore
		Analyse Service Quality and Customer Satisfaction	Kaplan Professional
		Analyse Service Quality and Customer Satisfaction	Service Quality Centre Pte Ltd
		Analyse Service Quality and Customer Satisfaction	Training Vision Institute Pte Ltd
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
		Facilitate Effective Communication and Engagement at the Workplace	Absolute Kinetics Consultancy Pte Ltd
		Develop Self	Bootstrap Pte Ltd
		People Leadership Program	Capelle Academy Pte Ltd
		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

Communication	Intermediate	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
		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
Communication	Intermediate	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