

## Skills Framework for Public Transport

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

Rail Engineering (Engineering Train)

**Job Role:**

**Senior Assistant Engineer/Assistant Engineer (Engineering Train)**

Full Qualification Programmes	Providers
Diploma in Engineering (Electrical)	Ngee Ann Polytechnic
Diploma in Engineering (Mechanical)	
Diploma in Engineering (Mechanronic)	
Part-time Diploma in Engineering (Electrical and Electronic)	Republic Polytechnic
Part-Time Diploma in Engineering (Operations and Engineering Management)	
Diploma in Engineering (Rapid Transit Technology)	Singapore Polytechnic
Specialist Diploma in Robotics and Automation	Temasek Polytechnic

Technical Skills and Competencies (TSC)			Modular Programmes	Providers
Category	Title	Proficiency Level		
Business Management	Data and Statistical Analytics	3	NICF - Business Intelligence Project	Lithan Academy Pte Ltd
			Text Mining & Analytics	Nanyang Polytechnic
			Data Analytics in the Workplace	Nanyang Polytechnic
			NICF - Business Intelligence Analytics	National University of Singapore
			NICF - Querying Data with Transact-SQL	NTUC Learning Hub Pte Ltd
			Data Visualisation for Business	Singapore University Of Social Sciences
			Fundamentals of Data Mining	Singapore University Of Social Sciences
			Association and Clustering	Singapore University Of Social Sciences
			Predictive Modelling	Singapore University Of Social Sciences
			Business Analytics Applications	Singapore University Of Social Sciences
			Business Forecasting	Singapore University Of Social Sciences
			MC3: Decision Analysis	Temasek Polytechnic
MC4: System Thinking and Method	Temasek Polytechnic			
Business Management	Innovation Management	3	Contribute to Innovation	Capelle Academy Pte Ltd
			Innovation : Turning Ideas into Gold (Project)	Everest Innovation Pte Ltd
			Conduct Interviews and Make Hiring Decisions	Human Capital (Singapore) Pte Ltd
			Conduct Interviews and Make Hiring Decisions	Singapore National Employers Federation
			Plan and Conduct Interviews to Facilitate Hiring Decisions	Singapore National Employers Federation
			MC3: Decision Analysis	Temasek Polytechnic
			MC5: Organisational Management	Temasek Polytechnic
Conduct Interview and Make Hiring Decisions	Training Masters Workforce Institute Pte Ltd			
Business Management	Report Writing	2	WSQ Write Reports	NTUC LearningHub Pte. Ltd.
Corporate Governance and Policy	Rail Regulatory Compliance	3	Career Onboarding for Railway Engineering (CORE) Programme (For in-service professional)	Singapore Rail Academy (SGRA), Land Transport Authority
People Management	Manpower Planning and Deployment	3	Conduct Competency-based Interview and Make Hiring Decision	Center for Competency-Based Learning and Development Pte Ltd
			Conduct Interviews and Make Hiring Decisions	Human Capital (Singapore) Pte Ltd
			Conduct Interviews and Make Hiring Decisions	Singapore National Employers Federation
			Plan and Conduct Interviews to Facilitate Hiring Decisions	Singapore National Employers Federation
			MC3: Decision Analysis	Temasek Polytechnic
			MC5: Organisational Management	Temasek Polytechnic
Process Improvement	Continuous Improvement Management	3	Conduct Interview and Make Hiring Decisions	Training Masters Workforce Institute Pte Ltd
			Quality Assurance & Quality Control	Ngee Ann Polytechnic
			Conduct Competency-based Interview and Make Hiring Decision	Center for Competency-Based Learning and Development Pte Ltd
			Conduct Interviews and Make Hiring Decisions	Human Capital (Singapore) Pte Ltd
			Conduct Interviews and Make Hiring Decisions	Singapore National Employers Federation
			Plan and Conduct Interviews to Facilitate Hiring Decisions	Singapore National Employers Federation
			MC3: Decision Analysis	Temasek Polytechnic
			MC5: Organisational Management	Temasek Polytechnic
			Conduct Interview and Make Hiring Decisions	Training Masters Workforce Institute Pte Ltd
			Masterclass in Effective Resource Management (For in-service professional in the Bus Sector)	Singapore Bus Academy (SGBA), Land Transport Authority
MC1: Process & Service Improvement	Temasek Polytechnic			
MC4: Systems Thinking & Methods	Temasek Polytechnic			
MC5: Organisational Management	Temasek Polytechnic			
Supply Chain Management	Inventory Management	3	MC2: Logistic Management	Temasek Polytechnic
			Manage Inventory	INTEGRATED TRAINING CONSULTANTS PTE. LTD.
			Manage Inventory	ST ELECTRONICS (E-SERVICES) PTE. LTD.
			Manage Inventory	TRAINING MASTERS WORKFORCE INSTITUTE PTE LTD

			Manage Inventory	U-TRAINING CENTRE PTE. LTD.
Rail Systems Maintenance	Heavy Crane Vehicle Maintenance	3	SGNDT (ISO 9712) Level II for Magnetic Particle Testing	Singapore Institute of Technology
			SGNDT (ISO 9712) Level II for Penetrant Testing	Singapore Institute of Technology
			SGNDT (ISO 9712) Level II for Ultrasonic Testing	Singapore Institute of Technology
Rail Systems Maintenance	Locomotive Maintenance	3	SGNDT (ISO 9712) Level II for Magnetic Particle Testing	Singapore Institute of Technology
			SGNDT (ISO 9712) Level II for Penetrant Testing	Singapore Institute of Technology
			SGNDT (ISO 9712) Level II for Ultrasonic Testing	Singapore Institute of Technology
Rail Systems Maintenance	Multi-Function Vehicle Maintenance	3	SGNDT (ISO 9712) Level II for Magnetic Particle Testing	Singapore Institute of Technology
			SGNDT (ISO 9712) Level II for Penetrant Testing	Singapore Institute of Technology
			SGNDT (ISO 9712) Level II for Ultrasonic Testing	Singapore Institute of Technology
Rail Systems Maintenance	Rail Grinding Vehicle Maintenance	3	SGNDT (ISO 9712) Level II for Magnetic Particle Testing	Singapore Institute of Technology
			SGNDT (ISO 9712) Level II for Penetrant Testing	Singapore Institute of Technology
			SGNDT (ISO 9712) Level II for Ultrasonic Testing	Singapore Institute of Technology
Rail Systems Maintenance	Wagon Maintenance	3	SGNDT (ISO 9712) Level II for Magnetic Particle Testing	Singapore Institute of Technology
			SGNDT (ISO 9712) Level II for Penetrant Testing	Singapore Institute of Technology
			SGNDT (ISO 9712) Level II for Ultrasonic Testing	Singapore Institute of Technology
Technology Management	Internet of Things Application	3	Sensors Systems Design for IoT	Institute of System Science (ISS), NUS
			Introduction to GIS and its Applications	Nanyang Polytechnic
			Enabling Technology for IoT - II	SMU Academy
			Building an Internet-of-Things Project	PACE Academy, Singapore Polytechnic
Technology Management	Robotics and Automation Application	3	Basic Microcontroller Programming (AMS SBMCs)	Ngee Ann Polytechnic
			Communication and Vision Systems (AMS SBMCs)	Ngee Ann Polytechnic
			Computer Programming (AMS SBMCs)	Ngee Ann Polytechnic
			Industrial Automation (AMS SBMCs)	Ngee Ann Polytechnic
			Industrial Drive Systems (AMS SBMCs)	Ngee Ann Polytechnic
			Microcontroller Interfacing and Applications (AMS SBMCs)	Ngee Ann Polytechnic
			Unmanned Systems (AMS SBMCs)	Ngee Ann Polytechnic
			Embedded Control Systems: Theory and Practice	Singapore Institute of Technology
			Introduction To Robotics Fundamentals	Singapore Institute of Technology
Robot Operating System: An Introduction	Singapore Institute of Technology			
Workplace Safety and Health	Workplace Facilities Safety Management	3	Supervise Workplace Safety and Health Practices	AVANTA GLOBAL PTE. LTD.
			Modular Certificate in Workplace Safety and Health Management	Institute of Technical Education
			Supervise Workplace Safety and Health Practices	INTEGRATED TRAINING CONSULTANTS PTE. LTD.
Workplace Safety and Health	Workplace Safety and Health Culture Development	3	Supervise Workplace Safety and Health Practices	AVANTA GLOBAL PTE. LTD.
			Modular Certificate in Workplace Safety and Health Management	Institute of Technical Education
			Supervise Workplace Safety and Health Practices	INTEGRATED TRAINING CONSULTANTS PTE. LTD.
Workplace Safety and Health	Workplace Safety and Health for Confined Spaces	3	Confine Space Rescue Course	Singapore Safety Training Centre
Workplace Safety and Health	Workplace Safety and Health for Fire Prevention and Fire Fighting	2	Fire Fighter Course 1	Civil Defence Academy
			Advanced Fire Fighting	Singapore Polytechnic
			Advanced Fire Fighting - Practical	Singapore Polytechnic

For Generic Skills and Competencies (GSCs) programme listing, please refer to Section (v) (c) - View the Training Programmes for Generic Skills and Competencies (GSCs) . To access the section, click this [link](#)