

Skills Framework for Aerospace
Programmes that broaden or deepen specific skills and knowledge
for the various occupations in the sector

Manufacturing

Occupation:
Manufacturing Engineer / Production Engineer

Full Qualification Programme	Provider
Diploma in Engineering (Aerospace Manufacturing) Precision Engineering Master Craftsman (PeMC)	NANYANG POLYTECHNIC
Diploma in Engineering (Aerospace) Diploma in Engineering (Mechatronics)	NGEE ANN POLYTECHNIC
Diploma in Engineering (Mechanical Technology) Diploma in Engineering (Mechanical - Rapid Transit Technology) WSQ Diploma in Precision Engineering - Mechatronics & Robotics Track (DMRO) WSQ Diploma in Precision Engineering - Machinery & System Track (M&S) Diploma in Engineering (Control & Automation) Diploma in Engineering (Power Engineering) Diploma in Power System Engineering	SINGAPORE POLYTECHNIC
Diploma in Engineering (Aerospace)	TEMASEK POLYTECHNIC

Skill Category	Modular Programme	Provider
Manufacturing Processes	Develop Mechanical Fixture Design	NANYANG POLYTECHNIC
	Manage Process Optimisation & Cutting Technologies	NANYANG POLYTECHNIC
	Manage Solid Modelling and Drafting for Machine Parts	NANYANG POLYTECHNIC
	Manage Engineering Project (CAM and CNC Machining)	NANYANG POLYTECHNIC
	Apply Computer Integrated Manufacturing (CIM) System	SINGAPORE POLYTECHNIC
	Manage Computer-Aided Manufacturing (CAM) Techniques	NANYANG POLYTECHNIC
	Manage Advanced CNC Machining	NANYANG POLYTECHNIC
	Manage Advanced Tool-Room Machining	NANYANG POLYTECHNIC
	Assembly of Mechanical Machines	SINGAPORE POLYTECHNIC
Technical and Engineering Fundamentals	Apply Mechanics in Design Solutions	NANYANG POLYTECHNIC
	Manage Computer-Aided Design (CAD) Techniques	NANYANG POLYTECHNIC
	Apply Mathematical Concepts in Engineering Solutions	NANYANG POLYTECHNIC
	Apply Robotics Fundamentals	SINGAPORE POLYTECHNIC
	Apply Principles of Electrical Fundamentals (Advanced)	SIA ENGINEERING COMPANY LIMITED
	Select Aerospace Materials and Hardware (Advanced)	SIA ENGINEERING COMPANY LIMITED
	Perform Aerospace Maintenance Practices (Advanced)	SIA ENGINEERING COMPANY LIMITED
Workplace Safety and Health	Supervise Workplace Safety and Health Practices	MASS EDUCATION INSTITUTE PTE. LTD.
		PETROFAC TRAINING INSTITUTE PTE. LTD.
		INTEGRATED TRAINING CONSULTANTS PTE. LTD.
		SINGAPORE INSTITUTE OF MATERIALS MANAGEMENT
		SP TRAINING AND CONSULTANCY COMPANY PTE. LTD.
		SMF CENTRE FOR CORPORATE LEARNING PTE. LTD.
		DAIKIN AIRCONDITIONING (SINGAPORE) PTE. LTD.
		TEMASEK POLYTECHNIC
		AIR TRANSPORT TRAINING COLLEGE PTE LTD
		ELECTRONICS INDUSTRIES TRAINING CENTRE
		NTUC LEARNINGHUB PTE. LTD.
		SINGAPORE MANUFACTURING FEDERATION
		SINGAPORE POLYTECHNIC
		SSA CONSULTING GROUP PTE. LTD.
		YOKOGAWA ENGINEERING ASIA PTE LTD
INSTITUTE OF PROCESS INDUSTRY (IPI) - A DIVISION OF ASPRI		
FLEXI INDUSTRIAL SAFETY TRAINING PTE. LTD.		

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		SINGAPORE TECHNOLOGIES MARINE LTD TAT HONG TRAINING SERVICES PTE LTD SIA ENGINEERING COMPANY LIMITED SP GLOBAL SOLUTIONS PTE. LTD.	
Productivity and Innovation	Apply Failure Mode Effect and Analysis (FMEA)	SMF CENTRE FOR CORPORATE LEARNING PTE. LTD. LEARNERS HUB PTE. LTD. NEVILLE-CLARKE (SINGAPORE) PTE LIMITED NTUC LEARNINGHUB PTE. LTD.	
	Implement Lean Six Sigma	LEARNERS HUB PTE. LTD. NEVILLE-CLARKE (SINGAPORE) PTE LIMITED SERVICE QUALITY CENTRE PTE. LTD. SMF CENTRE FOR CORPORATE LEARNING PTE. LTD. TRAINING VISION INSTITUTE PTE. LTD. SSA CONSULTING GROUP PTE. LTD. SINGAPORE NATIONAL EMPLOYERS FEDERATION SINGAPORE MANUFACTURING FEDERATION KAPLAN PROFESSIONAL EVEREST INNOVATION PTE. LTD.	
	Manage Productivity Improvement to Achieve Business Objectives	SMF CENTRE FOR CORPORATE LEARNING PTE. LTD. ASCENDO CONSULTING PTE. LTD.	
	Manage Manufacturing Productivity Improvement	NANYANG POLYTECHNIC	
	Supervise Work Improvement Processes	SINGAPORE POLYTECHNIC KAPLAN PROFESSIONAL FLEXI INDUSTRIAL SAFETY TRAINING PTE. LTD. SERVICE QUALITY CENTRE PTE. LTD. SINGAPORE INSTITUTE OF MATERIALS MANAGEMENT SINGAPORE MANUFACTURING FEDERATION SMF CENTRE FOR CORPORATE LEARNING PTE. LTD. TEXTILE AND FASHION INDUSTRY TRAINING CENTRE PTE LTD TRAINING VISION INSTITUTE PTE. LTD. PETROFAC TRAINING INSTITUTE PTE. LTD. SINGAPORE TECHNOLOGIES MARINE LTD SSA CONSULTING GROUP PTE. LTD. SP TRAINING AND CONSULTANCY COMPANY PTE. LTD. AIR TRANSPORT TRAINING COLLEGE PTE LTD ELECTRONICS INDUSTRIES TRAINING CENTRE SINGAPORE NATIONAL EMPLOYERS FEDERATION YOKOGAWA ENGINEERING ASIA PTE LTD INSTITUTE OF PROCESS INDUSTRY (IPI) - A DIVISION OF ASPRI NTUC LEARNINGHUB PTE. LTD. LIGHTHOUSE GLOBAL TRAINING AND CONSULTANCY PTE. LTD. SIA ENGINEERING COMPANY LIMITED TAT HONG TRAINING SERVICES PTE LTD SP GLOBAL SOLUTIONS PTE. LTD.	
	Planning and Implementation	Display Critical Thinking and Analytical Skills	KAPLAN PROFESSIONAL CAPELLE ACADEMY PTE. LTD. INSTITUTE OF SINGAPORE CHARTERED ACCOUNTANTS SINGAPORE NATIONAL EMPLOYERS FEDERATION AUSTON INSTITUTE OF MANAGEMENT PTE. LTD.
			INSTITUTE OF PROCESS INDUSTRY (IPI) - A DIVISION OF ASPRI LEARNERS HUB PTE. LTD. SINGAPORE MANUFACTURING FEDERATION SMF CENTRE FOR CORPORATE LEARNING PTE. LTD. SUPPLY CHAIN & LOGISTICS ACADEMY PTE. LTD.

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Project Management	Apply Project Management Skills	SINGAPORE INSTITUTE OF MATERIALS MANAGEMENT
		SUPPLY CHAIN ASIA COMMUNITY LTD.
		NTUC LEARNINGHUB PTE. LTD.
		ELECTRONICS INDUSTRIES TRAINING CENTRE
		PUBLIC UTILITIES BOARD
		TEMASEK POLYTECHNIC
Leadership	Lead Organisation to Develop Organisational Strategic Priorities, Culture and Governance	SINGAPORE NATIONAL EMPLOYERS FEDERATION
		NATIONAL UNIVERSITY OF SINGAPORE
		ODE CONSULTING PTE. LTD.
Human Resource	Appraise/Evaluate Staff	WILLIAM ANGLISS INSTITUTE PTE. LTD.
		IFI ACADEMY PTE. LTD.
		TEMASEK POLYTECHNIC
	Develop On-the-job Training Programme	ASIAN CULINARY INSTITUTE OF SINGAPORE
		SINGAPORE SPA INSTITUTE PTE. LTD.
		SHATEC INSTITUTES PTE. LTD.
Assess Competence	INSTITUTE FOR ADULT LEARNING (IAL)	
	CENTER FOR COMPETENCY-BASED LEARNING AND DEVELOPMENT PTE. LTD.	
	SINGAPORE TRAINING & DEVELOPMENT ASSOCIATION (STADA)	
Develop and Review Competency-based Assessment	SIGMA SOLUTIONS HRD CONSULTANTS PTE. LTD.	
	INSTITUTE FOR ADULT LEARNING (IAL)	
People and Relationship Management	Establish Organisational Relationships and Lead Organisational Diversity	SINGAPORE POLYTECHNIC
		CAPELLE ACADEMY PTE. LTD.
	Develop Personal Effectiveness at Managerial Level	SINGAPORE NATIONAL EMPLOYERS FEDERATION
		SERVICE QUALITY CENTRE PTE. LTD.
		SINGAPORE NATIONAL EMPLOYERS FEDERATION
		SSA CONSULTING GROUP PTE. LTD.
Develop Personal Effectiveness at Managerial Level	TRAINING VISION INSTITUTE PTE. LTD.	
	KAPLAN PROFESSIONAL	
	SINGAPORE INSTITUTE OF MANAGEMENT (SIM)	
	CAPELLE ACADEMY PTE. LTD.	
People Management and Development	Develop Personal Effectiveness at Managerial Level	SINGAPORE INSTITUTE OF MANAGEMENT (SIM)
		SINGAPORE NATIONAL EMPLOYERS FEDERATION
		SERVICE QUALITY CENTRE PTE. LTD.
	Manage Workplace Challenges with Resilience	TRAINING VISION INSTITUTE PTE. LTD.
		KAPLAN PROFESSIONAL
		SSA CONSULTING GROUP PTE. LTD.
Manage Workplace Challenges with Resilience	ROHEI CORPORATION PTE. LTD.	
	SERVICE QUALITY CENTRE PTE. LTD.	