Singapore Polytechnic

School of Mechanical & Aeronautical Engineering

Course Calendar

April to September 2026

Learn in a world of innovation and expertise.
Discover courses that propel your career.



Welcome to Singapore Polytechnic

School of Mechanical & Aeronautical Engineering

At Singapore Polytechnic, our legacy is built on a firm commitment to excellence that dates back to 1954. As pioneers in education and innovation, we have fuelled Singapore's growth into a global powerhouse. Our School of Mechanical & Aeronautical Engineering has nurtured talents who are ready to meet the challenges of the future.



Empowering Through Education

Our dedication goes beyond traditional learning; we are committed to the professional and personal development of every learner. Through our tailored courses and comprehensive training programmes, we equip our students with the skills necessary to excel in an ever-changing world.

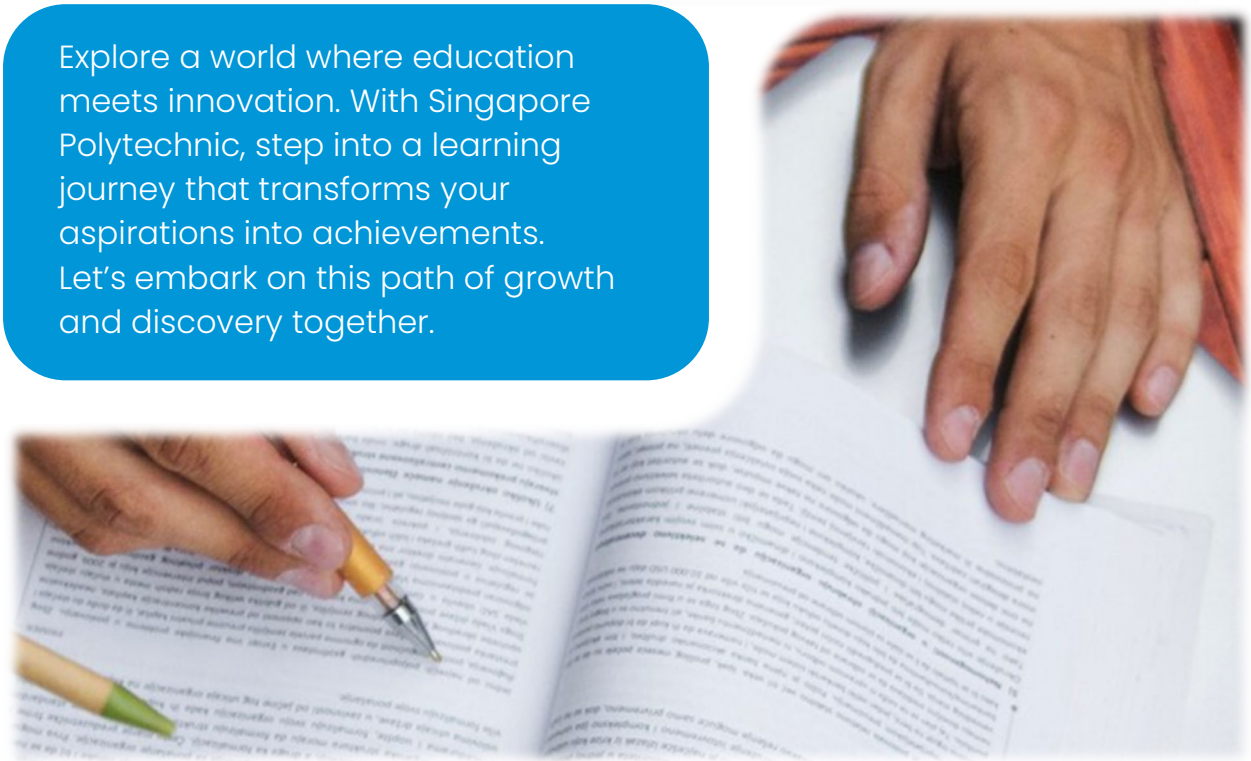


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Your Pathway to Professional Excellence

Through the Professional & Adult Continuing Education (PACE) Academy, we offer more than 400 courses ranging from Part-Time Diplomas to Post-Diplomas and specialised certificates. Each programme is crafted to bridge the gap between theory and practical application, ensuring that what you learn here not only enhances your skills but also amplifies your career prospects.

Explore a world where education meets innovation. With Singapore Polytechnic, step into a learning journey that transforms your aspirations into achievements. Let's embark on this path of growth and discovery together.



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Why Choose Singapore Polytechnic's PACE Academy?

Excellence in Professional Development

Tailored Learning Experiences

Customised Courses: Over 400 targeted courses designed to meet the specific needs of the industry and individual career growth.

Flexible Learning Pathways: From Part-Time Diplomas to Post-Diplomas, and Work-Study Programmes, find a learning pathway that fits your schedule and career aspirations.

Industry and Community Connection

Strong Industry Links: Courses are developed in partnership with key industry bodies, ensuring they are relevant and up to date with current industry standards.
Community Engagement: Proud recipient of the SG50 Certificate of Appreciation for contributing to Singapore's 50-year journey as a nation.

Empowerment Through Education

Funding and Support: Extensive support through partnerships with SkillsFuture Singapore (SSG) and Workforce Singapore (WSG) to make education accessible and affordable.

Award-Winning Education: Celebrate learning with an academy recognised for its excellence. Gold Winner of the Best Learning and Development Provider, HRM Asia Readers Choice Awards from 2019 to 2021.

Innovation in Teaching: Acknowledged for eliminating manual processes and enhancing team excellence with awards such as the Innergy (SB) Awards 2017 and the International Exposition on Team Excellence 2016.

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Our Esteemed Partners and State-of-the-Art Facilities

Explore the robust network of industry partners and our strategically located training facilities, designed to offer you unparalleled learning experiences close to industry hubs.





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Explore Our Comprehensive Course Offerings

Look into a wide range of meticulously curated courses designed to meet your professional needs and enhance your career trajectory. Find the perfect match for your aspirations in our detailed course listings below.

Part-Time **Diploma** & **Post-Diploma**

Work-Study Programmes

SkillsFuture Career Transition Programme

Mentorship Support Grant

Short Courses and **Modules**



Contact us

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Part-Time Diploma & Post-Diploma Courses



Part-Time Diploma courses are designed for adult learners with working experience and academic qualification* such as GCE 'O' level, ITE qualification or WSQ Certificate, with the focus to equip them with the knowledge and skills to undertake and add value to jobs within a specific industry.

Programme Click the link to view the latest information and course schedules on our landing page	**Duration**	**Registration**	**Course Date (s)**
Diploma in Engineering (Mechanical Technology)	900 hours (2.5 years)	Jun to Aug 2026	Oct 2026 to Mar 2029
Diploma in Engineering (Advanced Manufacturing)	900 hours (2.5 years)	Jun to Aug 2026	Oct 2026 to Mar 2029
Diploma in Engineering (Aerospace)	918 hours (2.5 years)	Jun to Aug 2026	Oct 2026 to Mar 2029
Diploma in Engineering (Mechanical- Rapid Transit Technology)	900 hours (2.5 years)	Jun to Aug 2026	Oct 2026 to Mar 2029
Specialist Diploma in Air-Conditioning & Energy Sustainability	240 hours (1 year)	Jun to Aug 2026	Oct 2026 to Mar 2029

The entry requirements may differ from course to course. Please navigate to the respective course website to view the course entry requirements. Years in National Service can be counted toward working experience.

Please note that once the maximum class size is reached, the online registration will be closed.
You may register your interest and be notified when there is a new run.

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Part-Time Diploma & Post-Diploma Courses



Programme Click the link to view the latest information and course schedules on our landing page	**Duration**	**Registration**	**Course Date (s)**
Specialist Diploma In Robotics & Automation (Robotics Application)	240 hours (1 year)	Jun to Aug 2026	Oct 2026 to Mar 2029
Specialist Diploma in Aerospace Engineering	320 hours (1 year)	Jun to Aug 2026	Oct 2026 to Mar 2029
Specialist Diploma in Sustainable Digital Manufacturing	240 hours (1 year)	Jun to Aug 2026	Oct 2026 to Mar 2029
SF Diploma in Logistics (Warehouse Management)	400 hours (1 year)	Jul to Aug 2026	14 Sep 2026 to 17 Nov 2027
SF Diploma in Logistics (Freight Management)	400 hours (1 year)	Jun to Jul 2026	11 Aug 2026 to 14 Oct 2027

The entry requirements may differ from course to course. Please navigate to the respective course website to view the course entry requirements. Years in National Service can be counted toward working experience.

Please note that once the maximum class size is reached, the online registration will be closed.
You may register your interest and be notified when there is a new run.

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Work-Study Programme



The SkillsFuture Work-Study Programme (WSP) is a work-learn programme that gives fresh graduates from the Polytechnics and the Institute of Technical Education (ITE) a head-start in careers related to their discipline of study. It provides them with more opportunities, after graduation, to build on the skills and knowledge they acquired in school, and better supports their transition into the workforce.

This programme places fresh graduates from Polytechnic and ITE who have completed the relevant full-time Diploma/NITEC/Higher NITEC in participating companies as full-time employees. The graduates would then undergo structured on-the-job training (OJT) at the companies as well as facilitated learning at Singapore Polytechnic. At the end of the programme, an Advanced Diploma/Specialist Diploma/Certificate of Completion will be awarded to the students.

Programme Click the link to view the latest information and course schedules on our landing page	**Duration**	**Registration**	**Course Date (s)**
Work-Study Certificates leading to Part-Time Diploma in Engineering (Advanced Manufacturing)	360 hours (1 year)	Jun to Aug 2026	Oct 2026 to Sep 2027
Work-Study Certificates leading to Diploma in Engineering (Mechanical – Rapid Transit Technology)	540 hours (1.5 years)	Jun to Aug 2026	Oct 2026 to Mar 2028

Only applicants who are shortlisted by SP and participating companies will be notified to attend interviews. Successful applicants employed by the participating companies will be placed under the programme.

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Work-Study Programme

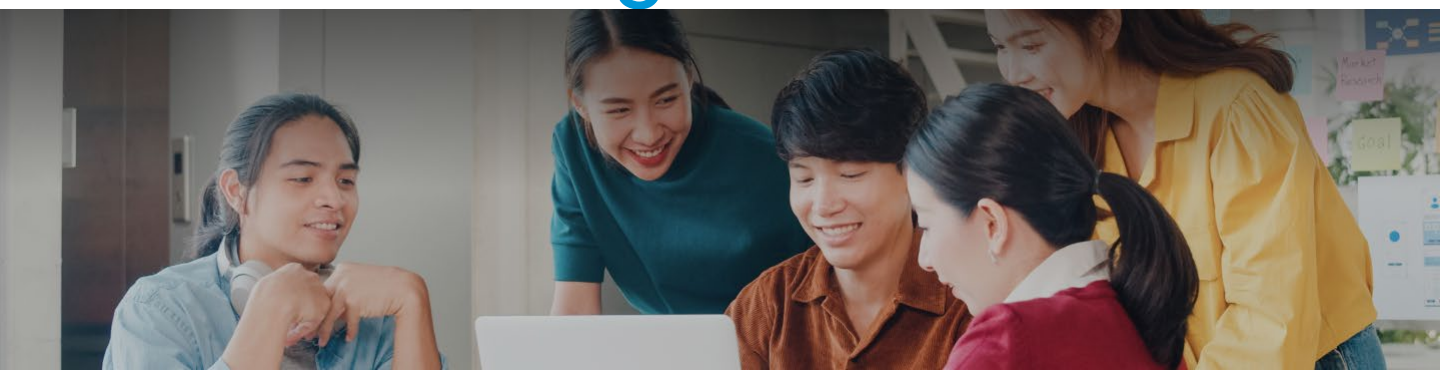


Programme Click the link to view the latest information and course schedules on our landing page	**Duration**	**Registration**	**Course Date (s)**
Work-Study Post-Diploma (Specialist Diploma in Aerospace Engineering)	320 hours (1 year)	Jun to Aug 2026	Oct 2026 to Sep 2027
SP-SUSS Work-Study Certificates leading to Part-Time Diploma in Engineering (Aerospace)	510 hours (1 year)	Jun to Aug 2026	Oct 2026 to Sep 2027

Only applicants who are shortlisted by SP and participating companies will be notified to attend interviews. Successful applicants employed by the participating companies will be placed under the programme.

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SkillsFuture Career Transition Programme

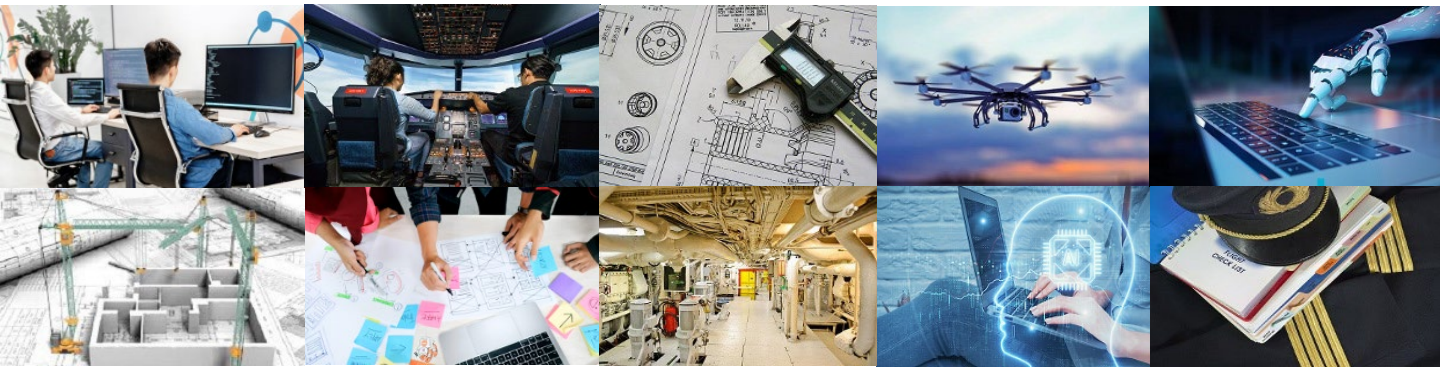


The SkillsFuture Career Transition Programme (SCTP) is a train-and-place programme that supports mid-career individuals in acquiring industry-relevant skills to improve employability and pivot to new sectors or job roles The SCTP is open to all Singaporeans and Singapore Permanent Residents who are looking for training opportunities to transit to a new sector or job role.

Programme Click the link to view the latest information and course schedules on our landing page	**Duration**	**Registration**	**Course Date (s)**
(SCTP) Aircraft Maintenance for Technician	120 hours	Please Enquire	Please Enquire

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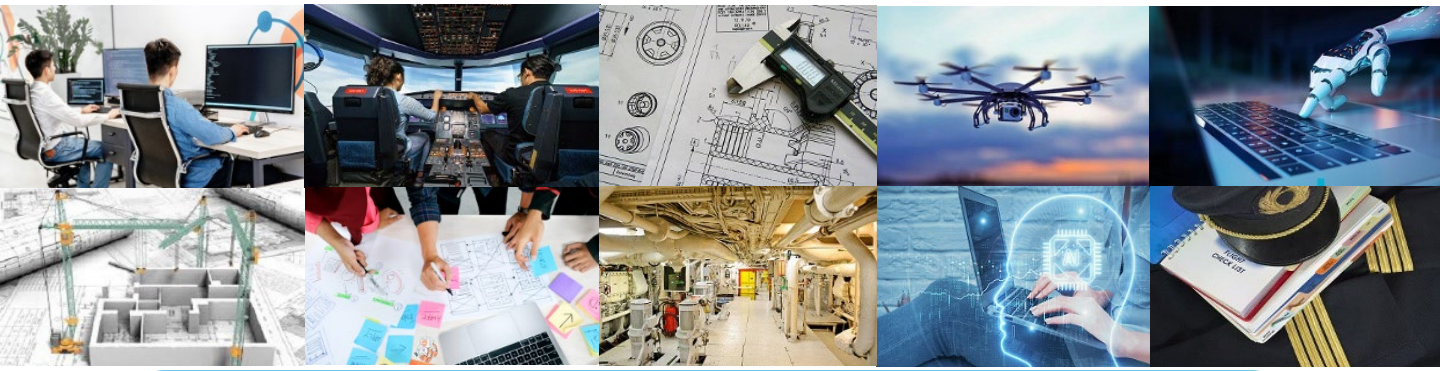
SkillsFuture Series
Short Courses and Modules



Programme Click the link to view the latest information and course schedules on our landing page	Duration	Course Date (s)
Advanced Manufacturing		
Additive Manufacturing For Professionals (Classroom and Asynchronous e-learning)	56 hours	20 April 2026 17 August 2026
Advanced Manufacturing (i4.0) Learning Journey	7 hours	Please Enquire
Applying Lean – Identifying and Quantifying Bottlenecks with Takt	24 hours	Please Enquire
Automated Data Analysis and Visualisation in Excel With Python for Manufacturing Processes	16 hours	Please Enquire
Automating Manufacturing Workflows Using Microsoft 365 and Power Automate (Pending SSG)	16 hours	Please Enquire
Consumer Sustainability Industry Readiness Index (COSIRI): Accelerating Net-Zero by Bridging Industry 4.0 Innovation and Sustainability	40 hours	8 June 2026
Designing Additive Manufacturing Workspace Safety: Standards, Hazards, and Best Practices	24 hours	Please Enquire

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SkillsFuture Series
Short Courses and Modules

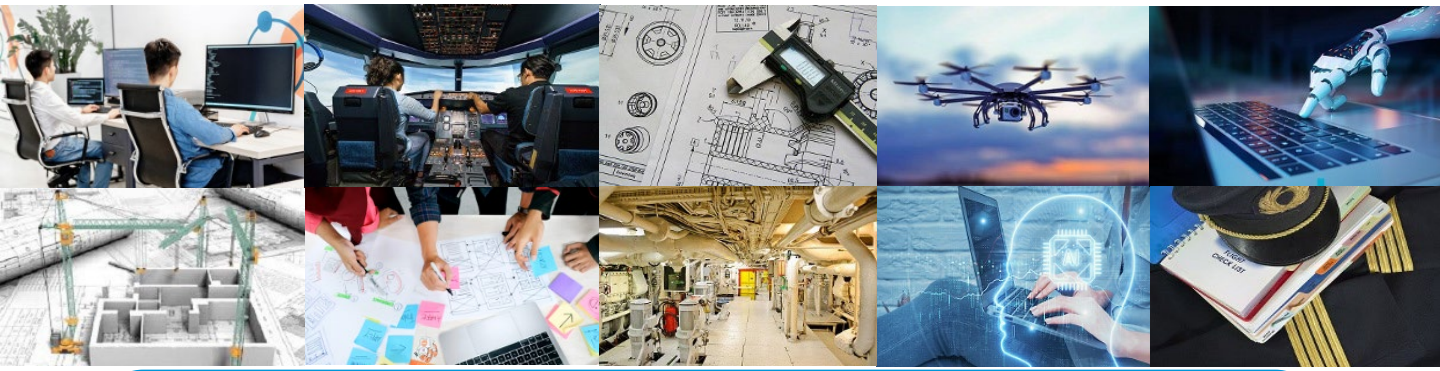


Programme Click the link to view the latest information and course schedules on our landing page	Duration	Course Date (s)
Advanced Manufacturing		
Embarking Industry 4.0 with LEAN - Value-Stream Mapping	24 hours	11 September 2026
Essentials of Basic Networking, Database and Web Applications for Advanced Manufacturing	8 hours	10 April 2026 8 June 2026
Excel Visual Basic for Applications (VBA) For Industrial Automation	16 hours	Please Enquire
Fundamentals of Additive Manufacturing	8 hours	25 May 2026
Geometric Dimensioning & Tolerancing (GD&T) Fundamentals	21 hours	19 May 2026 9 June 2026 28 July 2026
Harnessing AI With Microsoft Copilot in Building Smart Manufacturing Solutions	16 hours	18 June 2026 11 September 2026
Introduction to Advanced Manufacturing (e-learning)	7.5 hours	Please Enquire
Machine Condition Monitoring Using Python Open Platform Communication (OPC)	24 hours	Please Enquire
Machine Learning Using Chat Generative Pre-trained Transformer (ChatGPT) For Manufacturing Industry	16 hours	Please Enquire

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SkillsFuture Series
Short Courses and Modules

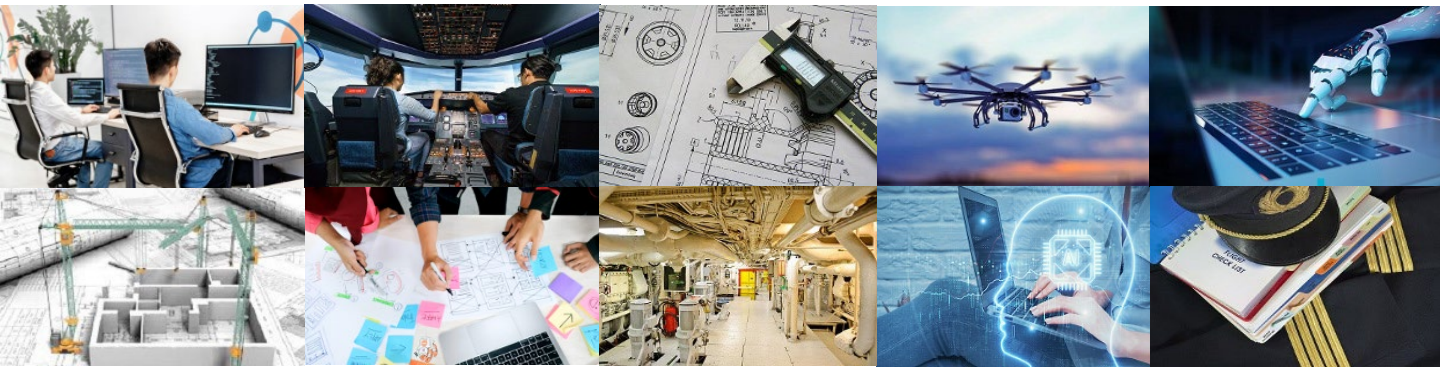


Programme Click the link to view the latest information and course schedules on our landing page	Duration	Course Date (s)
Advanced Manufacturing		
Machine Monitoring Dashboard With Node-Rules Engine and Dataflow (Node-RED)	24 hours	Please Enquire
No-code Robotics with 3D Vision and AI for Industrial Applications	16 hours	Please Enquire
Open Platform Communications Unified Architecture (OPC UA) for Advanced Manufacturing	16 hours	Please Enquire
Power BI for Smart Manufacturing	24 hours	Please Enquire
Practical Applications of Condition Monitoring for Industry 4.0	16 hours	6 April 2026 9 June 2026
STAR for Additive Manufacturing	80 hours	Please Enquire

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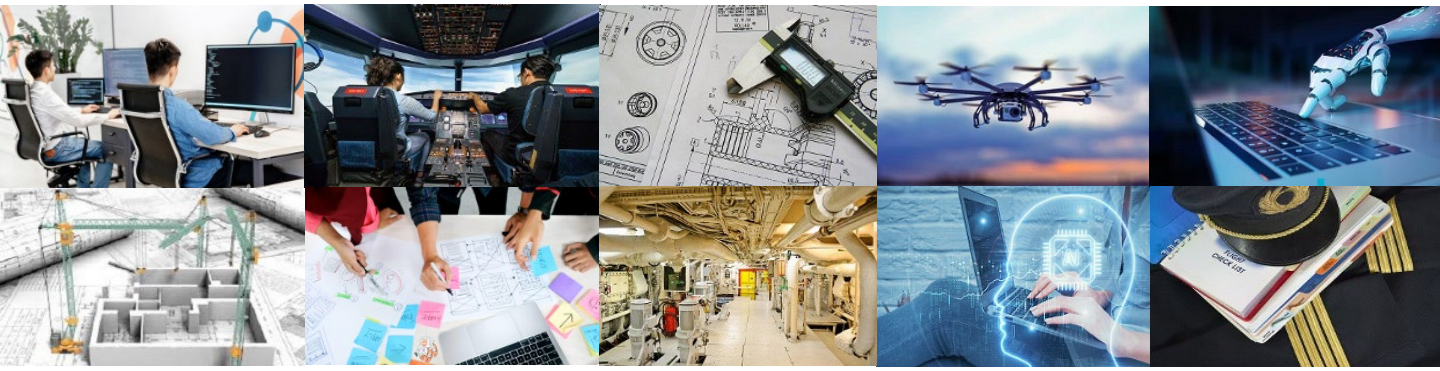
SkillsFuture Series
Short Courses and Modules



Programme Click the link to view the latest information and course schedules on our landing page	**Duration**	**Course Date (s)**
Modelling & Simulation		
Advanced Revit MEP Modelling	28 hours	22 July 2026 19 October 2026
AutoCAD 2D - Intermediate	21 hours	June 2026 (TBC) July 2026 (TBC)
AutoCAD Basics (2D & 3D)	36 hours	22 June 2026 6 July 2026 7 July 2026 7 September 2026 5 October 2026
Autodesk Navisworks for MEP BIM Project Collaboration	30 hours	25 August 2026
Computational BIM for MEP Projects using Revit Dynamo	30 hours	16 September 2026
Corenet X Essential for Mechanical, Electrical and Plumbing (MEP) Services	21 hours	28 July 2026 8 September 2026
Design Optimisation For Product Development	26 hours	Please Enquire
Essential Skills in Computational Fluid Dynamics (CFD): From Theory to Practical Applications	34 hours	14 July 2026 8 September 2026 10 November 2026

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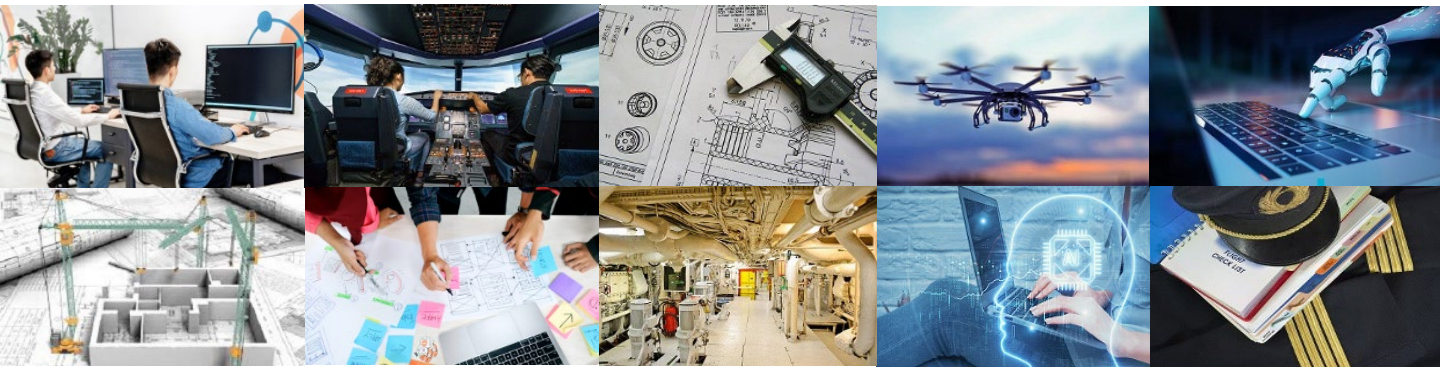
SkillsFuture Series
Short Courses and Modules



Programme Click the link to view the latest information and course schedules on our landing page	Duration	Course Date (s)
Modelling & Simulation		
Introduction to Structural Simulations using Solidworks Simulations	26 hours	Please Enquire
Revit MEP Modelling	40 hours	23 June 2026 7 September 2026
SolidWorks – 3D Modelling and Drawing	32 hours	1 July 2026
SolidWorks: Assembly Mastery	16 hours	21 May 2026
SolidWorks: Complex Part Design Engineering	16 hours	16 July 2026
SolidWorks: Sheet Metal and Weld Structures	32 hours	8 June 2026 7 September 2026
Structural Analysis using ANSYS FEA for Engineering Applications	24 hours	15 April 2026 17 June 2026 29 July 2026 2 September 2026 14 October 2026 18 November 2026 9 December 2026

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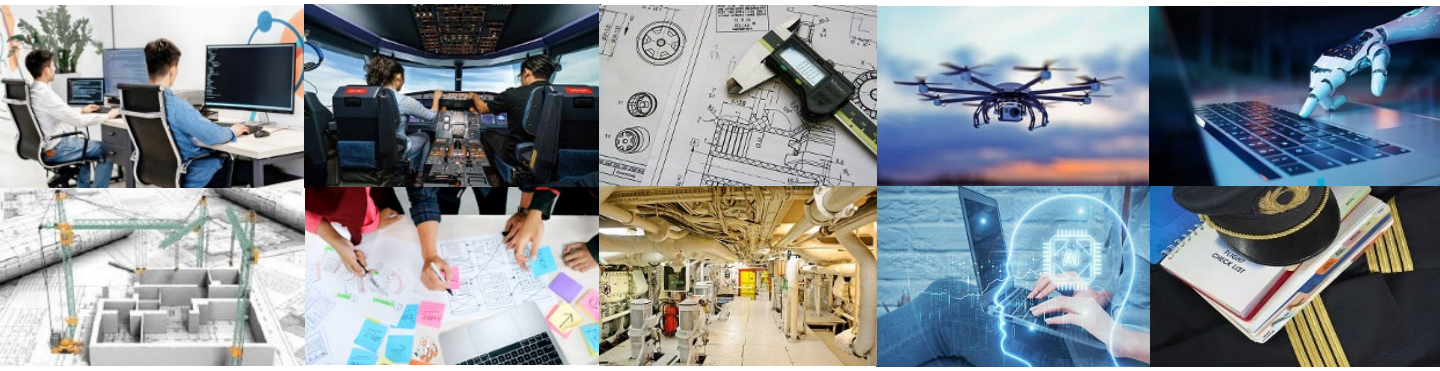
SkillsFuture Series
Short Courses and Modules



Programme Click the link to view the latest information and course schedules on our landing page	Duration	Course Date (s)
Modelling & Simulation		
WSQ Assessment-Only Pathway: Building Information Modelling (Mechanical)	2 hours	Please Enquire
WSQ Assessment-Only Pathway: Building Services (Mechanical)	3 hours	Please Enquire
WSQ Assessment-Only Pathway: Mechanical Design, Safety and Compliance for Built Environment	4 hours	Please Enquire

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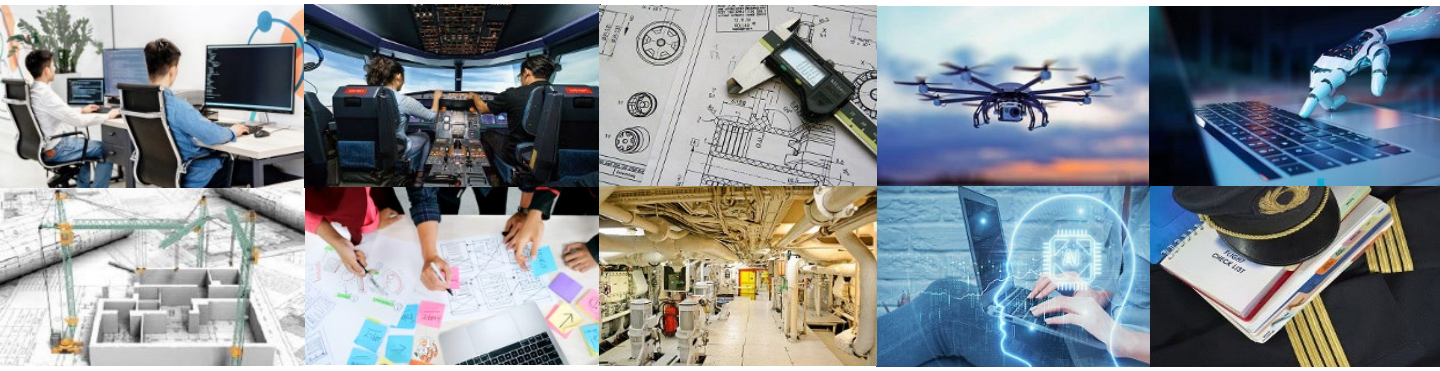
SkillsFuture Series
Short Courses and Modules



Programme Click the link to view the latest information and course schedules on our landing page	Duration	Course Date (s)
Aerospace		
Air Freight Fundamentals	15 hours	Please Enquire
CAAS Approved Unmanned Aircraft Pilot Licence (UAPL) Flying Training & Assessment (Multi-rotor 7kg or less)	32 hours	15 June 206 14 September 2026 7 December 2026
CAAS Approved Unmanned Aircraft Pilot Licence (UAPL) Flying Training & Assessment (Multi-rotor greater than 7kg but up to 25kg)	32 hours	Please Enquire
Eddy Current Testing Levels 1 and 2 Course	85 hours	Please Enquire
Experiential Commercial Pilot Training With Flight Simulator (Basic)	24 hours	6 April 2026 25 May 2026 1 June 2026 6 July 2026 27 July 2026 3 August 2026 17 August 2026 14 September 2026 28 September 2026
Experiential Commercial Pilot Training With Flight Simulator (Intermediate)	24 hous	8 June 2026 13 July 2026 1 September 2026
Hands-On Composite Repair: Taper Sanding Techniques	24 hours	16 June 2026 4 Dec 2026

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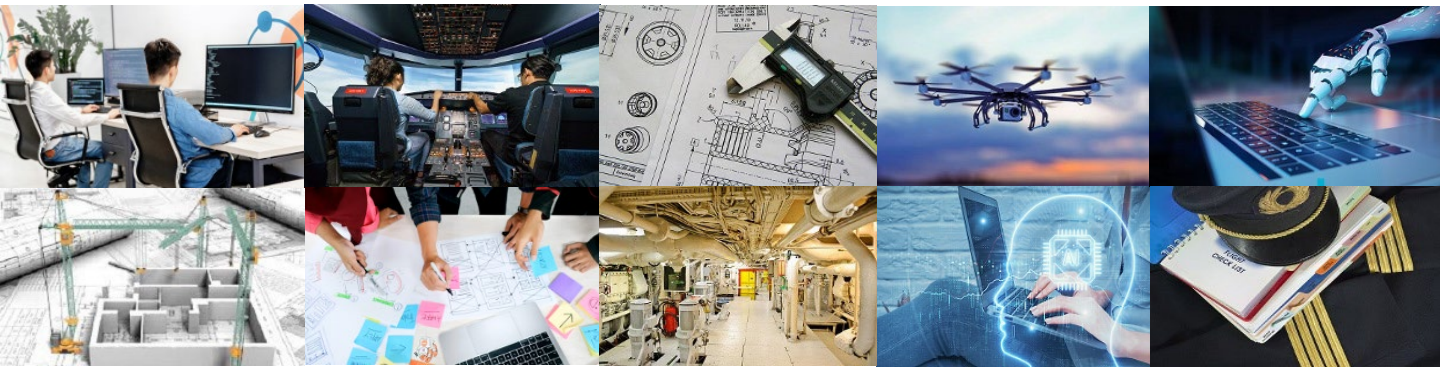
SkillsFuture Series
Short Courses and Modules



Programme Click the link to view the latest information and course schedules on our landing page	Duration	Course Date (s)
Aerospace		
Human Factors for Aviation Maintenance	45 hours	Please Enquire
Human Factors in Unmanned Aircraft Operations	8 hours	Please Enquire
Liquid Penetrant Testing Levels 1 and 2 Course (Combined)	45 hours	Please Enquire
Magnetic Particle Testing Levels 1 and 2 Course (Combined)	45 hours	Please Enquire
Private Pilot License Ground School Training Course (Introduction)	36 hours	4 May 2026 17 August 2026 2 Nov 2026
Ultrasonic Testing Levels 1 and 2 Course (Combined)	85 hours	Please Enquire
Unmanned Aircraft Basic Training (e-learning)	2 hours	Ongoing

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SkillsFuture Series
Short Courses and Modules

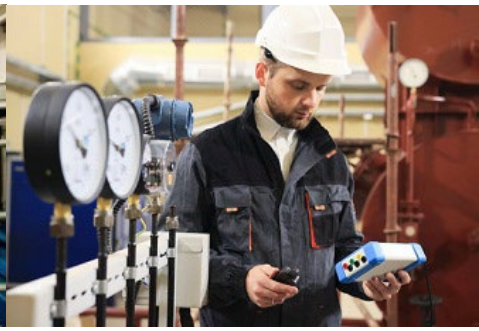


Programme Click the link to view the latest information and course schedules on our landing page	Duration	Course Date (s)
Sustainability		
Company and Workforce Transformation - Sustainable Manufacturing Strategy and Toolkits for Enterprise	56 hours	Please Enquire
Driving Sustainability in Manufacturing Through ISO 50001 Energy Management Approach (with TUV SUD)	16 hours	6 July 2026
Performing Fundamental Greenhouse Gas Accounting Based on ISO 14064 – A Manufacturing Perspective (with TUV SUD)	16 hours	29 June 2026
Sustainability Roadmap Implementation for Manufacturing Industry(with SMF)	16 hours	17 June 2026

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Certification Courses for Steam Boiler Engineer





Regulation 28(8) of the Workplace Safety and Health Act (WSH Act) (General Provisions) Regulations requires the owner of a Steam Boiler (SB) used in a workplace to ensure that only a competent person who has attended a training course acceptable to the Commissioner is allowed to operate the SB. Operators of SB are required to possess a Competent Persons' Certificate of Competency (COC) before they can operate the SB equipment.

Singapore Polytechnic conducts the SB Engineer courses for the 2nd Grade and 1st Grade SB Engineer, where there are Five (5) modules for each grade. Life-time Certificate of Competency (COC) will be issued for candidates who passed all modules examinations and meet the prescribes requirements by MOM.

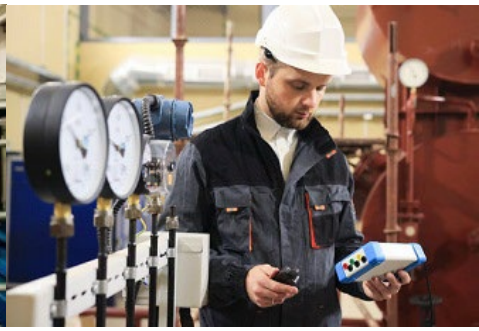
Applicants are to write in to SP PACE to enquire with their educational documents to check for eligibility to take the course.

2nd Grade SB Engineer Courses Click the link to view the latest information and course schedules on our landing page	**Duration**	**Course Date (s)**
Computer Aided Drafting (CAD)	60 hours	Applicants are advised to write in to SP PACE to check for course run available for: Apr 2026 to Sep 2026 &/or Oct 2026 to Mar 2027
Mechanics II	60 hours	
Thermofluids II	60 hours	
Engineering Knowledge II	45 hours	
Engineering Material 1	45 hours	

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Certification Courses for
Steam Boiler Engineer





1st Grade SB Engineer Courses Click the link to view the latest information and course schedules on our landing page	**Duration**	**Course Date (s)**
Computer Aided Drafting & Design (CADD)	60 hours	Applicants are advised to write in to SP PACE to check for course run available for: Apr 2026 to Sep 2026 &/or Oct 2026 to Mar 2027
Mechanics III	60 hours	
Engineering Thermodynamics	60 hours	
Engineering Knowledge II	60 hours	
Engineering Material 2	45 hours	

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Mentorship Support Grant (MSG)

The Mentorship Support Grant (MSG) provided by SkillsFuture Singapore (SSG) intends to co-fund the costs incurred by enterprises in engaging Singapore Polytechnic to provide project mentorship through consultancy and/or projected-based implementation-led training.

Eligible enterprises include Small and Medium Enterprises (SME) and Non-SMEs registered and operating in Singapore

- **Funding Subsidies:** Enterprises can receive up to 70% and 90% funding subsidies on the project fee for non-SME and SME respectively, subject to SSG's evaluation and approval
- **Number of Projects:** Enterprises can apply for MSG for a maximum of 3 projects

Additional Information can be found here.

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Your Journey Towards Lifelong Success Begins Here

At Singapore Polytechnic, we are dedicated to empowering you with the skills needed to excel in a rapidly evolving world. As your trusted partner in education, we commit to supporting your journey with innovative and impactful learning experiences that cater to both current trends and future demands.

Join Our Community of Learners

Whether you are starting a new career path, enhancing your current skills, or seeking to influence the industry, Singapore Polytechnic is here to support every step of your lifelong learning journey.

Visit us:
www.sp.edu.sg/pace

Talk to Us:
6772 1288

Email us:
pace@sp.edu.sg

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