



FUTURE-PROOF YOUR CAREER FOR SUCCESS

TOP 5 EMERGING SKILLS
FOR THE FUTURE

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When it comes to ensuring employability in Singapore, the changes in hiring trends and increasing competition may make securing your dream job a challenge. Employer's expectations, job descriptions, roles and responsibilities are expected to change with time.

Finding a suitable job, getting a promotion, or a career transition in your preferred industry may be a tough nut to crack unless you proactively upskill and demonstrate your ability to adapt to challenges.



23% OF JOBS

are expected to change from
2023-2027

Big Data
Analytics



Green
Transition

Evolution of
Job-Growth

In the *Future of Jobs Report 2023* by the World Economic Forum, some 23% of jobs and 44% of workers' core skills are expected to change in the next five years.



So, how do you Future-Proof yourself to stay employable in the coming years? This eBook discusses the top 8 skills to focus on, the learning pathways to follow and other useful resources. Read on.

TOP 5 EMERGING SKILLS

TO FUTURE-PROOF YOUR EMPLOYABILITY IN SINGAPORE

In a rapidly changing recruitment landscape, it is more important than ever to future-proof your employability. The good news is that many industries are still in the growth phase and offer great opportunities for career development.

SkillsFuture Singapore's Skills Demand for the Future Economy Report 2023/24 highlighted 4 key growth areas: **Green Economy**, **Digital Economy**, **Care Economy**, **Industry 4.0** and skills that are highly sought after.

HERE ARE 5 EMERGING SKILLS
YOU SHOULD EQUIP YOURSELF WITH.

01



SUSTAINABILITY &
ENERGY EFFICIENCY

02



DATA SCIENCE
AND AI

03



INDUSTRY
4.0

04



DIGITAL MARKETING
AND CONTENT

05



CLOUD & CYBER
SECURITY



SUSTAINABILITY & ENERGY EFFICIENCY

A green economy is a sustainable future that balances prosperity with planet preservation. This paradigm shift has led to the adoption of more environmentally sustainable practices and more sustainability targets for compliance and reporting.

Green skills generate new job opportunities, requiring professionals to upskill in the green economy with over 300 job roles in Environmental Sustainability Management and Environmental & Social Governance.



SKILLS WITH INCREASING DEMAND GROWTH

Sustainable Finance is booming with skills in Carbon Markets, Decarbonisation Strategies Management, and Sustainable Investment Management seeing a 1,300% surge.

Singapore's aim to produce 30% of its nutritional needs by 2030 is driving demand for expertise in emerging fields like urban farming and food technologies.

EMERGING JOBS

Green economy and adoption of environmentally sustainable business practices have created a new role in the job market with new job roles being created like

- ✦ **EV TECHNICIAN**
- ✦ **SUSTAINABLE FINANCIAL CONSULTANT**
- ✦ **SOLAR PROJECT ENGINEER**
- & MANY MORE.**

DATA SCIENCE AND ARTIFICIAL INTELLIGENCE (AI)

Data science and Artificial Intelligence will be among the most exciting and in-demand fields in the future. With the rise of big data and AI, there is an increasing need for professionals who can make sense of large data sets, extract valuable insights, and apply new applications across multiple industries.

CAREER IN DATA SCIENCE AND AI:

Job roles like data analyst, machine learning engineer, and data scientist are currently in demand. But you can also take on the exciting role of a research analyst or business intelligence analyst roles with the help of part-time diploma courses. If you have experience in data science and AI,

CAREER DEVELOPMENT:

Open up more opportunities for career growth in the following skill domains:

- ✦ SYSTEMS OUTSOURCING
- ✦ MANAGEMENT CONSULTING
- ✦ COMPUTER SOLUTIONS DEVELOPMENT
- ✦ INFORMATION TECHNOLOGY AND SERVICE
- ✦ DATA ANALYSIS AND VISUALISATION

UPCOMING JOB ROLES

- ✦ BUSINESS INTELLIGENCE DEVELOPER
- ✦ MACHINE LEARNING (ML) SPECIALIST
- ✦ NATURAL LANGUAGE PROCESSING (NLP) DEVELOPER – MACHINE LEARNING IS
- ✦ DEEP SCIENTIST – APPROACHING

INDUSTRY 4.0

Industry 4.0 technologies like Artificial Intelligence (AI) and Internet of Things (IoT) are helping manufacturers to streamline their business processes by integrating new technologies into every aspect of their operations. With these cutting-edge solutions, manufacturers are enjoying increased efficiency and productivity, as well as reduced costs.



CAREER IN INDUSTRY 4.0:

You can begin your career in Industry 4.0 as a Technician, Associate Engineer or Engineer/Assistant. However, if you're in the Value Stream Mapping field, you can consider pursuing various career options such as Plant Engineer, Process Engineer or Production Engineer.

CAREER DEVELOPMENT:

Open up more opportunities for career growth in the following skill domains:

- INDUSTRIAL AUTOMATION
- DIGITAL COLLABORATIVE ROBOTICS AND ROBOTICS
- VIRTUAL AND AUGMENTED REALITY
- EMBEDDED-SYSTEMS MANAGEMENT
- SENSOR TECHNOLOGY
- 3D PRINTING AND ADDITIVE MANUFACTURING

UPCOMING JOB ROLES

- DIGITAL TWIN ENGINEER
- DATA EXCHANGE ENGINEER
- INTELLIGENT INFRASTRUCTURE DESIGNER
- VISION ZERO AND TRAFFIC SAFETY ENGINEER

DIGITAL MARKETING AND CONTENT



UPCOMING JOB ROLES

- MARKETING AUTOMATION SPECIALIST
- VIDEO PRODUCTION AND MARKETING SPECIALIST
- TWO-MEDIA SPECIALIST
- CONTENT MARKETING SPECIALIST
- PERFORMANCE MARKETER

In a rapidly digitalising world, it is no surprise that digital marketing and content are becoming increasingly important career fields. As more businesses move online, they need specialists to help them reach their target audiences through effective digital marketing and engaging content.

CAREER IN DIGITAL MARKETING AND CONTENT:

Digital Content Marketing offers vast career opportunities for professionals with different years of experience. You can work with brands as an Online Reputation Management Executive (ORME) or as an entry-level content writer as a fresh graduate. Mid to advanced level professionals can work as Social Media Analysts, MediaBuy Specialists, and Search Engine Optimisation Specialists. As an advanced professional, you may also work as a Conversion Rate Optimisation (CRO) Specialist and Growth Hacker.

CAREER DEVELOPMENT:

Open up more opportunities for career growth in the following skill domains:

- COPY WRITING AND CONTENT WRITING
- DIGITAL ADVERTISING
- MARKETING STRATEGISING
- ANALYTICS AND GROWTH HACKING

CLOUD AND CYBER SECURITY



By storing data and applications remotely, businesses can achieve greater flexibility and scalability than ever before.

The Cloud is also constantly evolving, so there are always new opportunities to learn and grow. At the same time, with increasing reliance on technology in all aspects of life, there is a growing need for experts who can protect systems and data from attack.

CAREER IN CLOUD AND CYBER SECURITY

The Information, Communication and Technology (ICT) sector offers a plethora of job roles for professionals. The job prospects for cloud and Cyber Security professionals remain robust, fuelled by increasing cloud adoption, persistent cyber threats, and a skills shortage.

CAREER DEVELOPMENT:

Open up more opportunities for career growth in the following skill domains:

- CLOUD PLATFORM SECURITY
- NETWORK DEVICE MANAGEMENT
- INCIDENT RESPONSE MANAGEMENT
- CONSULTING
- ETHICAL HACKING

UPCOMING JOB ROLES:

- SOFTWARE MODULE DESIGN AND DEVELOPMENT
- CLOUD SaaS MANAGEMENT
- CLOUD SECURITY ANALYST
- PENETRATION TESTER
- APPLICATION SECURITY ENGINEER
- INFRASTRUCTURE ANALYST
- DIGITAL FORENSICS EXAMINER

LET SP PAGE ACADEMY

JOURNEY WITH

you





#LifelongLearning

is a whole-of-society effort that requires each of our companies, workers, institutions and students to take on a different mindset and role.

How will you be preparing for the future?

**-Minister of Education,
Chan Chun Sing**



SKILLS TOP-UP THROUGH SHORT & MODULAR COURSES

Want to upskill and upgrade your competencies?



These courses are typically shorter in tenure and focus on a specific subject. Short courses are for those who want to upgrade their skills quickly without having to commit to a long-term programme. Modular courses are for those who want to study at their own pace and complete the course in 6 to 8 weeks.

We prepared for the future through short & modular courses in the

5 EMERGING SKILLS



01

SUSTAINABILITY & ENERGY EFFICIENCY

- Best-in-Class in Environmental Sustainability and Energy Efficiency – Sustainability Lead
- Sustainability Transformation Through Green Companies
- Sustainability for Practitioners: Sustainability Reporting Remodeling Environmental, Social and Governance (ESG) Performance
- Sustainability for Practitioners: Carbon Management and Strategies to Drive Net Zero

DATA SCIENCE AND AI

- Best-in-Class in Artificial Intelligence – AI Lead
- Data Wrangling, Analysis and Visualization
- Appreciation of IoT and Data Management
- Big Data Analytics
- Persuasive Communication with Data wrangling



02

INDUSTRY 4.0



03

- Industry Specialist (SPE) 4.0
- Advanced Manufacturing Lead – AM Lead
- Industry 4.0 for Advanced Manufacturing with Industry Application
- Advanced Manufacturing (4.0) Learning Journey

DIGITAL MARKETING AND CONTENT

- Fundamentals of Digital Marketing
- Social Media Marketing for your Business
- Understanding Digital Marketing Analytics
- Digital Marketing for Personal Branding
- Driving Performance Marketing Strategies Through Analytics



04



05

CLOUD & CYBER SECURITY

- Cyber Security for Non-IT Professionals
- Fundamentals of Cyber Security
- IIS Including Practitioner (Cloud & Virtualisation)
- Amazon Web Services Cloud Computing Architecture



WORK-STUDY PROGRAMMES (WSP)

As the name suggests, a Work-Study Programme allows fresh Polytechnic and ITE graduates to work with a participating company as a full-time employee and study concurrently along with a **100% WSP Stipend** **in cash**. This is a great way for students to gain working skills and knowledge and build up some industry experience.

A mentor is assigned to mentor participants to guide them on the application of key concepts learnt from the course into work context through structured On-the-Job Training (OJT). The structured OJT with the participating company will run concurrently with facilitated learning either Face-to-Face or Online (Synchronous). Singapore Citizens and Singapore Permanent Residents are eligible for WSP.

FOR ITE GRADUATES:



Work-Study Certificate
Leading to part-time Diploma
in Applied Science
(**Chemical Laboratory
Technology**)



Work-Study Certificate
Leading to part-time Diploma
in Engineering
(**Advanced Manufacturing**)



Work-Study Certificate
Leading to part-time Diploma
in Engineering
(**Language**)



Work-Study Certificate
Leading to Part-time
Diploma in
(**Software Engineering**)



Work-Study Certificate
Leading to part-time Diploma
in Business Practice
(**Business Management**)

FOR POLYTECHNIC GRADUATES:



Work-Study Post-Diploma
(Advanced Diploma in
Applied Science and
Engineering)
(Microelectronics and
Materials)



Work-Study Post-Diploma
(Advanced Diploma in
Applied Food Science)



Work-Study Post-Diploma
(Advanced Diploma in
Power Engineering)



Work-Study Post-Diploma
(Specialist Diploma in
Building Information
Modelling Management)



Work-Study Post-Diploma
(Advanced Diploma in
Chemical Engineering)



Work-Study Post-Diploma
(Specialist Diploma in
Port Management and
Operations)



Work-Study Post-Diploma
(Specialist Diploma in
Cyber Security)



DP-B222 Work-Study
Post-Diploma leading to
Specialist Diploma in Digital
Content Marketing



Work-Study Post-Diploma
(Specialist Diploma in Full
Stack Web Development)

SKILLSFUTURE CAREER TRANSITION PROGRAMMES (SCTP)

If you belong to any of these categories below, the SkillsFuture Career Transition Programme (SCTP) is for you.

1

Currently working but looking for a better job role within your organisation

2

Currently working in a company but looking for better job opportunities elsewhere

3

Out of a job and looking to start working full-time again

4

Working as a freelancer or want to start a business



(SCTP)

Advanced Certificate of Performance in Optimisation, Dispensing & Refraction (ACOP-SDR)



(SCTP)

AI and Cloud Services



(SCTP)

Senior Content Professionals



(SCTP)

Start-up Essentials for Creative Entrepreneurship



(SCTP)

Facilities Operations Management



(SCTP)

Applied HR and Business Digitalisation



(SCTP)

Aircraft Maintenance for Technicians



SKILLS NEEDED TO BOOST YOUR EMPLOYABILITY

The **transferable skills** which join you need to apply for **Technical Skills** and **Critical Core Skills** are essential. Take a look at these industry-relevant skills that can value-add to your portfolio.



TECHNICAL SKILLS

When it comes to building or upskilling, you will require some basic industry-relevant skills to start your journey. Having these skills influences positively an individual's performance across a variety of tasks and results.

Digital Literacy Skills

The ability to navigate through programs like Microsoft Word and Excel will help you create documents, spreadsheets and more. You may also need to be proficient in using databases, like Access, or FileMaker Pro, which can be used by your employer as part of their business processes.

- ✔ **Productivity software**
(Microsoft Office Suite, Google Suite)
- ✔ **Web design and development**
(HTML, CSS, JavaScript)
- ✔ **Graphic design**
(Adobe Creative Suite)
- ✔ **Video and audio editing**
(Adobe Premiere, Audition)
- ✔ **Coding languages**
(Python, Java, C++)

Data Analytics & Visualization Skills

The ability to navigate through programs like Microsoft Excel, Vizio and Power BI will help you create documents, analyze data, generate dashboards and more. In the course of your work, you may also need to be proficient in using databases, like Access or FileMaker Pro.

To develop these skills, you can start by:

- ✔ Familiarizing yourself with basic statistical concepts
- ✔ Performing data analysis with ready-made datasets
- ✔ Finding real data sets to work with
- ✔ Learning basic visual design skills
- ✔ Practicing rapid prototyping
- ✔ Learning storytelling with data

Planning & Strategic Thinking

The ability to plan and think strategically can help you in any job as it demonstrates that you can see the “big picture” and understand how your role fits into it. This skill also shows that you can set goals and work towards them in a systematic way.

Some tips on how to develop this skill include:

- ✔ Keeping a journal for the most part of thoughts and ideas
- ✔ Working on problem-solving activities, like puzzles or brain teasers
- ✔ Practicing meditation or mindfulness





CRITICAL CORE SKILLS

Both skills are important as they depict traits and interpersonal skills that help build successful relationships in a workplace while complementing the hard skills.

Adaptability

Adaptability is the ability to adjust to new situations and environments. It is an important skill in today's workplace as employers are looking for employees who can cope with change. With technology changing so rapidly, it is also important to be able to learn new skills quickly.

Here are some ways you can develop your adaptability:

- ✔ Be open to change and new experiences
- ✔ Be willing to accept feedback
- ✔ Try different things and step out of your comfort zone
- ✔ Be flexible in your thinking

Communication

Communication involves written, spoken and non-verbal language. It is the ability to share information to understand one another better. Good communication skills are important in any job, as you will need to be able to communicate with your coworkers, customers and clients.

Follow these tips to improve your communication skills:

- ✔ Find opportunities to practice speaking in front of an audience
- ✔ Join a debating society
- ✔ Do improvisational acting
- ✔ Write in a journal

Problem Solving Skills

Problem solving skills refer to the ability to identify and solve problems in an effective and efficient manner. These skills involve a range of approaches and strategies for tackling different types of problems, and are important for success in both personal and professional settings.

Some tips to improve your problem solving skills:

- ✔ Analytical thinking
- ✔ Breaking down the problems
- ✔ Look for patterns
- ✔ Generate various potential solutions
- ✔ Test feedback and implement the best solution

SOME IN-DEMAND COURSES TO EQUIP YOURSELF WITH TECHNICAL AND CRITICAL CORE SKILLS

COURSE	Strategic Thinking	Project Mgmt	Business Writing	Digital Marketing	Strategic Leadership & Innovation	Designing Effective Learning
Global Issues for Digital Workplace 1.0 (Global)	✔	✔		✔	✔	
Global Issues for Digital Workplace 1.0 (Global)	✔	✔		✔	✔	
Global Issues for Digital Workplace 2.0 (Personalizing)	✔	✔		✔	✔	
Global Issues for Digital Workplace 2.0 (Personalizing)		✔		✔	✔	
Designing Effective Interactions	✔		✔	✔		
Introduction to Digital Workplace Transformation	✔	✔	✔			
Workday Transformation of The Workplace	✔	✔	✔			✔
Critical and Creative Thinking	✔	✔	✔			✔
Conflict Management and Negotiation Skills	✔	✔	✔			✔
AI/ML/Phishing Fundamentals				✔		
Data Visualization with Python			✔	✔	✔	
Fundamentals Data Analytics using Excel			✔	✔	✔	



All the best

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