

## EMERGING JOBS AND SKILLS REPORT



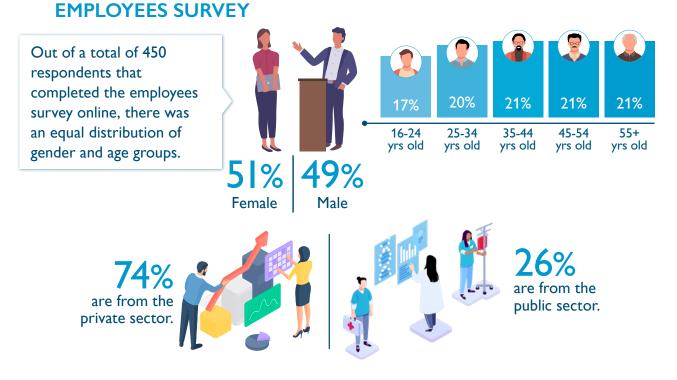
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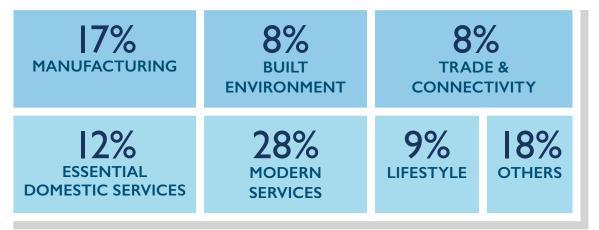
## **Research Methodology**

Over 650 working professionals from Singapore were surveyed at the start of December 2021. The respondents included 450 full-time working employees (with a reporting manager) and 200 employers (middle, senior managers or directors and above who makes hiring decisions) to uncover a dual perspective about the current job market, emerging jobs and skills as well as the training landscape in Singapore.

## Profile of Respondents

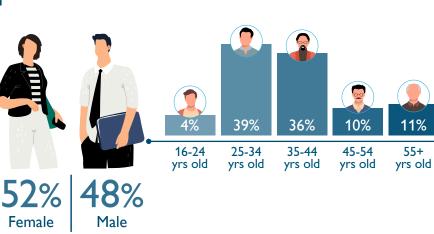


#### The respondents span across all six industry clusters.



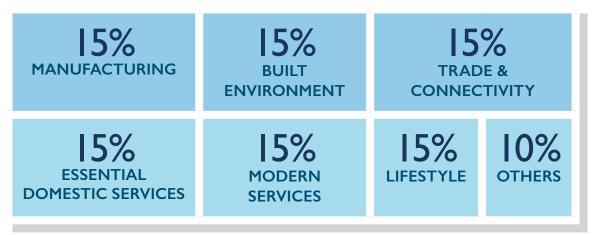
#### **EMPLOYERS SURVEY**

Out of a total of 200 respondents that completed the employers survey online, there was an equal distribution of gender.





The respondents span across all six industry clusters.



## 

he pace of digital transformation at the workplace, coupled with the changes brought about by COVID-19, has created a 'doubledisruption' scenario for workers and businesses alike. Many had to grapple with the sudden shift to remote working, and at the same time, were expected to be equipped with the necessary skills to perform business online.

To overcome this continued disruption into the endemic era, the onus is on both employers and employees to embrace a strong learning culture to ensure a more agile workforce that will be adept in responding to digitalisation<sup>1</sup>. While strong emphasis must be placed on technology skillsets, the hallmark of digital transformation lies with the organisation's human capital<sup>2</sup> – where employees' adaptive skills supplements and adds value to functions which technologies are incapable of fulfilling.

To help workers and companies build a more resilient workforce, NTUC LearningHub (NTUC LHUB) has embarked on a study to uncover a dual perspective about the current job market, training landscape, as well as the jobs and skills coveted by employers in Singapore. Additionally, this report explores job and skills trends according to the six major industry clusters as identified by the Future Economy Council, namely Manufacturing, Built Environment, Trade & Connectivity, Essential Domestic Services, Modern Services and Lifestyle. To provide an extra layer of analysis, we also explored how these sentiments have changed as compared to a year ago, when we launched the first installment of this report, titled The New Normal of Sector Skills 2020 Report.

With this report, NTUC LHUB aims to highlight the trends in our workforce to help employees identify priority skills that they should develop and put forth key jobs that are currently sought after by organisations. Furthermore, we hope that this report will also encourage employers to further support their workforce in upskilling by proactively redesigning workforce learning programmes to instill a corporate learning culture that will ultimately build people competencies and business capabilities.

<sup>1</sup> World Economic Forum. 2021 Top-down or Bottom-up? How to Cultivate a Digital Culture in Your Organisation. [Accessed 27 December 2021].

<sup>2</sup> World Economic Forum. 2021 Here's Why Closing the Cybersecurity Skills Gap is Critical to Digitalisation. [Accessed 27 December 2021].



### **Employees' Perspective**

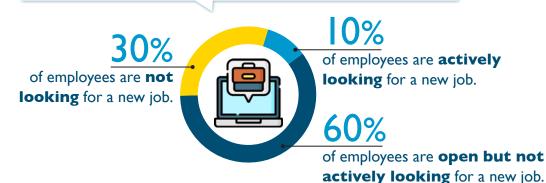
I. DUE TO THE POSITIVE OUTLOOK ON THE SINGAPORE JOB MARKET, MANY EMPLOYEES ARE OPEN TO EXPLORING NEW EMPLOYMENT OPPORTUNITIES.



7% of employees are either 'very optimistic', 'optimistic' or 'somewhat optimistic' about the general outlook of the Singapore job market.



About seven in ten employees are either actively looking or open to a new job.



### TOP JOB ROLES EMPLOYEES ARE KEEN TO EXPLORE



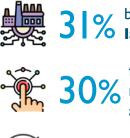
#### 2. EMPLOYEES ARE CONCERNED ABOUT THEIR JOB STABILITY IN THE FACE OF DIGITAL TRANSFORMATION.



of employees are either 'very concerned', 'concerned' or 'somewhat concerned' about the impact of digitalisation on jobs and roles in their industry.







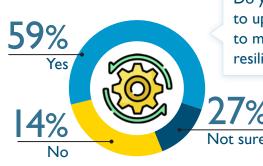
31% believe that they will be **replaced due to the lack of skills** amidst digital transformation.

**30%** fear that **digitalisation will render their role redundant** as tasks will be driven by artificial intelligence.

9% hold the view that technology adoption will lead to an overall decrease in jobs.

#### 3. THERE IS AN URGENCY FOR SKILLS UPGRADING AMONG WORKERS DUE TO THE NEED TO STAY RELEVANT AND COMPETITIVE.

About **three in five employees** believe that they **need to upgrade their skills** to move into a more resilient industry.



Do you see the need to upgrade your skills to move into a more resilient industry?



either 'strongly agree', 'agree' or 'somewhat agree' that they feel the need to upskill to keep themselves relevant in their current role for the next two years.

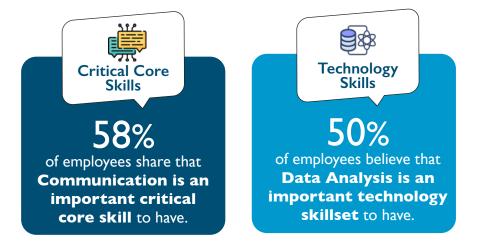




of **employees** say they will **arrange for training resources on their own** such as taking paid online courses outside of work.



#### TOP SKILLS EMPLOYEES DEEM IMPORTANT TO HAVE



#### 4. EMPLOYEES DESIRE ACTIVE PLANNING AND SUPPORT FROM THEIR COMPANY TO UPSKILL EFFECTIVELY.



of **employees** either **'strongly agree'**, **'agree' or 'somewhat agree'** that they wish their company could have **provided more support** to help with their skills upgrading.





cite that the **'lack of initiative'** from their company is an obstacle they face when upskilling.





are concerned about the **'lack** of support from the company in skills training' amidst digital transformation.

## **Employers' Perspective**

#### 5. EMPLOYERS ARE LOOKING TO HIRE DUE TO THE OPTIMISTIC OUTLOOK OF THE SINGAPORE JOB MARKET.

76% of employers are either 'very optimistic', 'optimistic' or 'somewhat optimistic' about the Singapore job market.



65% of employers have been hiring or intend to hire new talent to meet their company's current business goals.

### TOP JOB ROLES EMPLOYERS ARE LOOKING TO FILL



#### 6. DIGITAL TRANSFORMATION HAS ACCELERATED THE NEED FOR WORKFORCE LEARNING.



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#### 7. EMPLOYERS ARE LOOKING TO FILL HYBRID ROLES TO ACHIEVE STRONGER BUSINESS OUTCOMES.

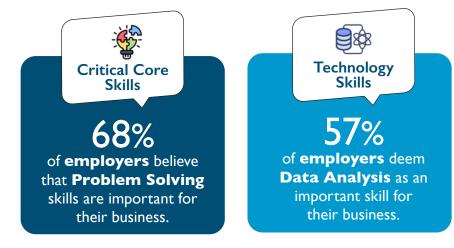


### **79**%

 $\odot$ 

of **employers** are looking to hire candidates with a **broader set of skills to take up hybrid roles** in the next two years.

#### TOP SKILLS EMPLOYERS DEEM IMPORTANT FOR THEIR BUSINESS



#### 8. UPSKILLING AND RESKILLING WORKERS ARE KEY STRATEGIES FOR COMPANIES TO TACKLE THE PREVALENT TALENT CRUNCH.

78% of employers find it difficult to fill roles due to a shortage of talent with the relevant skills.



training or intending to train existing employees to meet current business goals.



reveal that they plan to use **a mix** of both internal and external training to upskill and reskill the workforce in the next two years.



83%

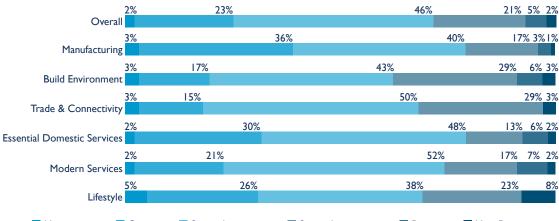
of employers have been

# GENERAL OUTLOOK

Employees are more optimistic about the current job market as compared to the previous year.



of **employees** are either **'very optimistic'**, **'optimistic'** or **'somewhat optimistic'** about the Singapore job market.

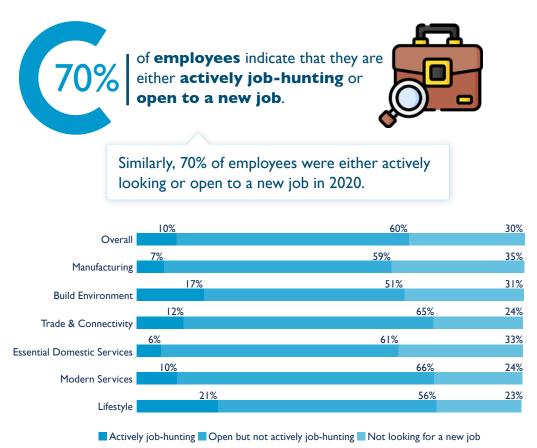


Very optimistic Optimistic Somewhat optimistic Somewhat pessimistic Pessimistic Very Pessimistic

Figures are rounded to the nearest whole number.

Employees working in **Essential Domestic Services (80%)** are currently the most optimistic about the Singapore job market, followed by those in the **Manufacturing (79%)** and **Modern Services (75%)**. This is in contrast to 2020's results, whereby employees working in **Built Environment (34%)** and **Modern services (40%)** were the least optimistic about the job market. While only 48% of employees in **Essential Domestic Services** held an optimistic outlook about the job market in 2020.

## While the proportion of those seeking new employement remain stable, employees are more confident of securing jobs.



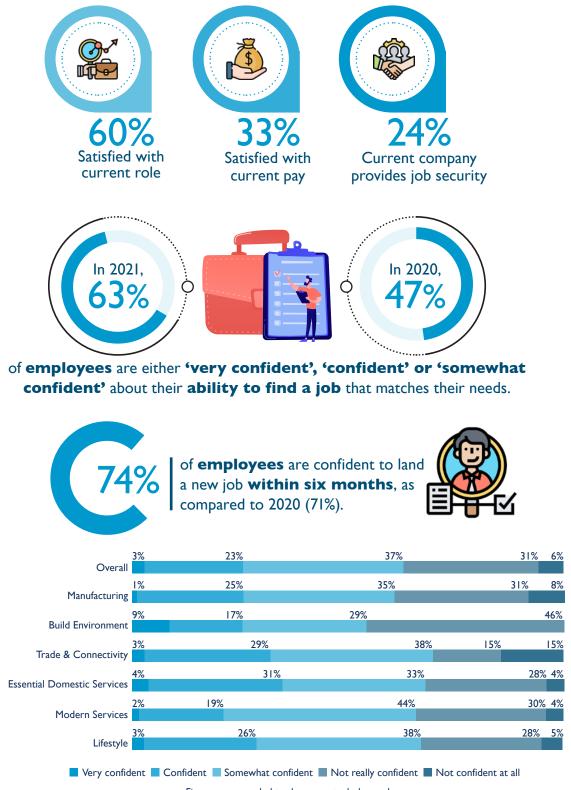
Figures are rounded to the nearest whole number.

Employees in Lifestyle (77%) are the most likely to look for a new job, followed by those in Trade & Connectivity and Modern Services (76%). On the other hand, employees working in Manufacturing (65%) are the least likely to look for new employment.

#### TOP FIVE REASONS FOR LOOKING FOR A JOB

Better pay	61%
Better career progression opportunities	<b>——</b> 45%
Looking to explore new roles	<b>— 44%</b>
Looking to explore new industry	35%
Lack of growth in current job	32%

#### TOP THREE REASONS FOR REMAINING IN THEIR CURRENT ROLE



Figures are rounded to the nearest whole number.

Employees in **Trade & Connectivity (70%)** are the most likely to feel confident about their ability to land a job, followed by those in **Essential Domestic Services (68%)**. However, employees working in the **Built Environment** industry are the least optimistic about their ability to secure new employment opportunities, where only **54%** say so.

## Employees are most keen to explore roles in Data Management.

In order to stay relevant in the next two years, employees reveal that there is a need to upgrade their skills to take on jobs in Data Management (52%), Digital Marketing (46%) and Leadership & Management (40%).

## TOP TEN DATA SCIENCE JOB ROLES ACCORDING TO EMPLOYEES

Data Management	<b>52%</b>
Data Analysis	52%
Data Visualisation	34%
Artificial Intelligence	32%
Statistical Programming	30%
Machine Learning	30%
Data Modelling	<b>29%</b>
Probability & Statistics	<b>29%</b>
Business Intelligence Analysis	<b>28%</b>
Data Mining	24%

## TOP TEN MARKETING JOB ROLES ACCORDING TO EMPLOYEES

Digital Marketing	<b>46%</b>
Digital Strategy	42%
Social Media Marketing	36%
Brand Management	27%
Public Relations	26%
Content Marketing	24%
Product Marketing	22%
Media Planning	20%
Digital Community Management	14%
Community Management	13%

#### TOP TEN BUSINESS AND SALES JOB ROLES ACCORDING TO EMPLOYEES

Leadership & Management	
Strategy & Operations	
Management & Organisation Analysis	
Business Development	
Finance -	
E-Commerce	
Market Research	
Sales	
Management Consulting	
Customer Success	

Employees are most concerned with job displacement by technology.



say that COVID-19 has brought about digital transformation to either a 'large extent' or 'moderate extent' in their current workplace.



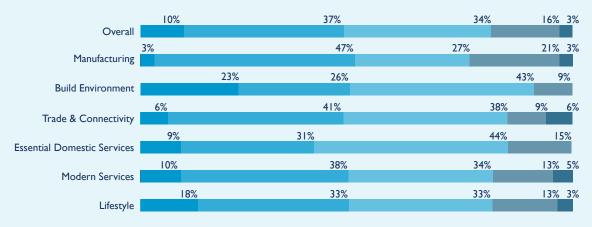
#### TO ADAPT TO COVID-19, EMPLOYEES SHARE THAT THEIR COMPANY NEEDS TO FOCUS ON THE FOLLOWING STRATEGIES:

Flexible work arrangements (e.g., remote working, flexible work hours) –	<b>— 68%</b>
Leverage technology to increase digitalisation/automation	<u> </u>
Provide employees with support system for well-being (e.g., employee assistance program, counselling, peer network)	<u> </u>
Reskilling/upskilling employees with relevant skills	— 36%
Find new learning pathways to train employees with skills	<b>— 34%</b>



of **employees** are either **'very concerned'**, **'concerned' or 'somewhat concerned'** about the **impact of digitalisation on jobs** in their industry.





Very concerned Concerned Somewhat concerned Not really concerned Not concerned at all Figures are rounded to the nearest whole number.

Employees working in **Built Environment (91%)** are most likely to feel concerned about the impact of digitalisation, whereas those working in **Manufacturing (76%)** are the least concerned.

While the majority believe that technology cannot entirely replace the role of humans in the workforce, about three in ten employees worry about their job security.



of **employees** fear that **digitalisation will render their role redundant** as tasks will be driven by artificial intelligence.



#### TOP FIVE CONCERNS ABOUT DIGITALISATION

There is a need to learn new skills to stay relevant	- 46%
Fear of not being able to adapt to new and complex skills	- 40%
Lack of support from the company in skills training	- 34%
Lack of agility from company in upgrading to new digital solutions	- 33%
Fear of being replaced due to the lack of skills	- 31%

#### ACCORDING TO EMPLOYEES, TECHNOLOGY ADOPTION...

Can only replace certain roles (e.g., highly manual, repetitive tasks)	40%
Cannot replace soft skills (e.g., communication, EQ)	30%
Leads to an overall decrease in jobs	- 29%
Cannot take on creative tasks	- 24%
Cannot replace decision making skills	23%

Employees think that an average of 66% of information and data processing tasks will be performed by technologies in the next two years.

#### **RATIO OF WORK PERFORMED BY TECHNOLOGIES**

Information and data processing	<u> </u>
Administrative work	<b>5</b> 4%
Performing physical and manual work activities	<b>5</b> 1%
Customer service	<u> </u>
Project management	38%
Communication and interaction	37%
Sales and business development	36%
Consulting / advising	32%
Reasoning and decision making	31%
People management	30%

#### Employees are upgrading to remain resilient and relevant.



of **employees** say there is a **need to upgrade their skills** to move into a more resilient industry.



Healthcare remains the most appealing industry that employees are interested to move into after they have upskilled. In 2020, **Healthcare (31%)** was voted as the top industry employees are interested to enter, followed by **Biopharmaceuticals Manufacturing (23%)** and **Infocomm Technology (21%)**.

#### TOP FIVE INDUSTRIES EMPLOYEES ARE INTERESTED TO PIVOT INTO







**23%** Infocomm Technology



8% Environmental Services



Financial Services

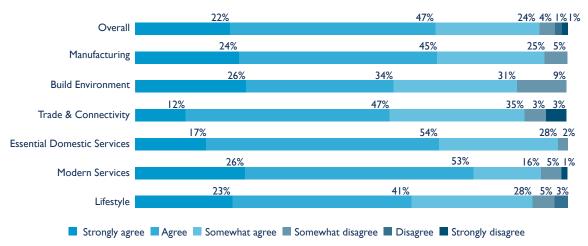


**17%** Biopharmaceuticals Manufacturing



of employees either 'strongly agree', 'agree' or 'somewhat agree' that there is a need to upgrade their skills to keep themselves relevant in their current role, as compared to 91% in 2020.





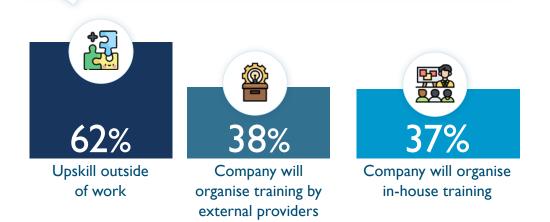
Figures are rounded to the nearest whole number.

Employees from **Essential Domestic Services (98%)** feel the strongest need to upskill in order to stay relevant in their current job. On the flip side, employees from **Built Environment (91%)** are the least likely to say so. This contrasts with 2020's results where employees from **Built Environment (96%)** felt the strongest need to upskill to remain relevant.

#### TOP FIVE REASONS FOR UPSKILLING

Better career progression opportunities	66%
Better pay	<b>58%</b>
Better match with skillsets	<b>50%</b>
Looking to explore new roles	<b>46%</b>
Fear of being laid off	37%

Most employees are **taking upskilling into their own hands** to keep themselves competitive in the job market in the next two years.



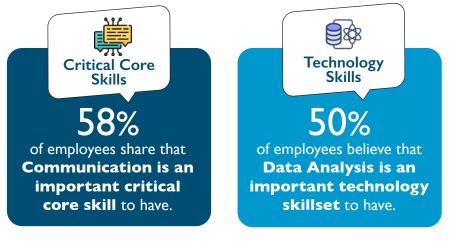
## EMPLOYEES WHO UPSKILL OUTSIDE OF WORK ON THEIR OWN ACCORD:

54% manufacturing	53% BUILT ENVIRONMENT	72% TRADE & CONNECTIVITY
58% ESSENTIAL DOMESTIC SERVICES	69% MODERN SERVICES	64% LIFESTYLE

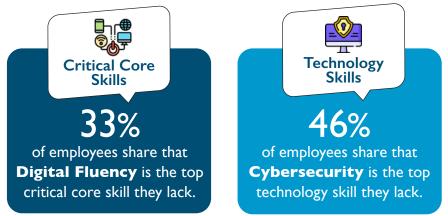
Employees from **Trade & Connectivity (72%)** are most likely to arrange for skills training on their own, whereas those working in **Built Environment (53%)** are the least likely to say so.

Overall, Communication is the most important competency to hone, whereas Cybersecurity is a skill which most employees lack.

#### TOP SKILLS EMPLOYEES DEEM IMPORTANT TO HAVE



#### TOP SKILLS EMPLOYEES ARE LACKING IN



#### **Critical Core Skills**

The Critical Core Skills is a new framework by SkillsFuture Singapore which identifies 16 adaptive and transferable competencies to help workers focus on upskilling beyond their technical roles<sup>3</sup>. Similar to the findings uncovered last year, Communication remains as the top skill which employees deem important to acquire.

#### TOP TEN CRITICAL CORE SKILLS EMPLOYEES BELIEVE ARE IMPORTANT TO HAVE

Communication	<b>— 58%</b>
Problem Solving	<b>— 54%</b>
Decision Making	<u> </u>
Adaptability	<b>—48%</b>
Creative Thinking	—45%
Learning Agility	
Self-Management	<u> </u>
Sense Making	<u> </u>
Collaboration	<u> </u>
Influence	<u> </u>

Consistent with last year's findings, Creative Thinking continues to be among the top skills which employees say they are lacking in. However, many employees find that they lack Digital Fluency this year. This is potentially due to the rapid technological advancements which have taken place as a result of coping with an endemic era.

#### TOP TEN CRITICAL CORE SKILLS EMPLOYEES LACK

Digital Fluency	- 33%
Creative Thinking -	- 32%
Developing People	<b>- 28%</b>
Influence	<b>- 26%</b>
Communication	- <b>26%</b>
Transdisciplinary Thinking	<b>-24%</b>
Global Perspective	<b>-24%</b>
Problem Solving	-23%
Learning Agility	-23%
Decision Making	- 21%

3 SkillsFuture Singapore. 2021. Skills Demand for the Future Economy. [Accessed 14 December 2021].

#### **Technology Skills**

In 2020, employees voted Data Analysis, Project Management and Data-Driven Decision-Making skills as the most important technology skillset to have. However, Cybersecurity has emerged among the top three technology skills which employees deem important this year.

#### TOP TEN TECHNOLOGY SKILLS EMPLOYEES BELIEVE ARE IMPORTANT TO HAVE

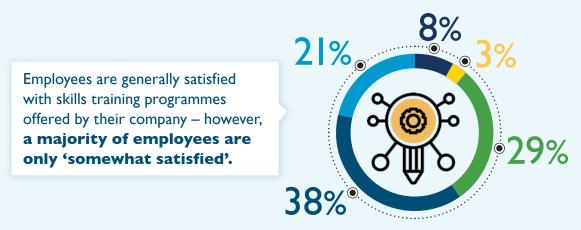
Data Analysis	— <b>50%</b>
Project Management	<b>— 46%</b>
Cybersecurity	— 45%
Data-Driven Decision-Making	— 40%
Basic IT Support	— 39%
Artificial Intelligence / Machine Learning	— 37%
Digital Marketing	<b>— 29%</b>
Governance, Risk Management and Personal Data Protection	<u> </u>
Web / App Design & Development	<b>— 25%</b>
Robotic Process Automation	— 23%

When compared to 2020's survey, Cybersecurity, Artificial Intelligence / Machine Learning and Data Analysis remain the top technology skills which employees believe they lack in.

#### TOP TEN TECHNOLOGY SKILLS EMPLOYEES LACK

Cybersecurity	<u> </u>
Artificial Intelligence / Machine Learning	<u> </u>
Data Analysis	— 41%
Robotic Process Automation	— 39%
Web / App Design and Development	— 38%
Data-Driven Decision-Making	— 35%
Digital Marketing	— 34%
Governance, Risk Management and Personal Data Protection	— 32%
Project Management	— 31%
Agile / Scrum	— <b>28%</b>

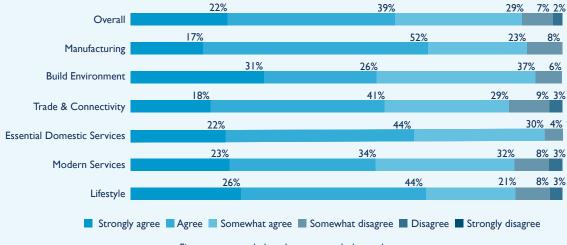
## Employees need clarity and guidance from their employers for skills development.



📕 Very satisfied 📕 Satisified 📕 Somewhat satisfied 📕 Not really satisfied 📕 Not satisfied at all



of **employees** wish their company could **provide more support** to help with their skills upgrading.



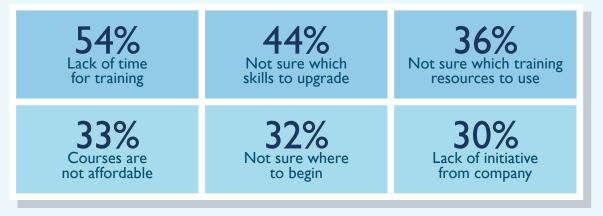
Figures are rounded to the nearest whole number.

Employees working in **Built Environment (31%)** 'strongly agree' that their company should provide more support to aid in skills upgrading.



The lack of guidance is a recurrent notion underlying the obstacles that employees face when upskilling.

#### TOP OBSTACLES EMPLOYEES FACE WHEN UPSKILLING



#### TOP EIGHT TRAINING OPPORTUNITIES DESIRED BY EMPLOYEES

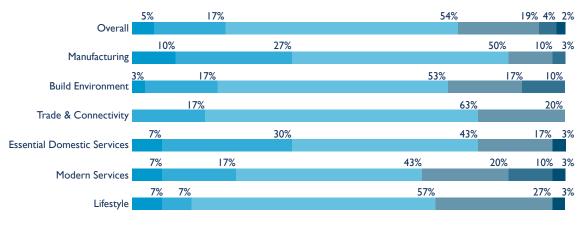
Assign specific courses for employees to attend (e.g., face-to-face/ virtual classes) -	47%
On the job training	46%
Provide employees with a budget and they can pick skills to train	42%
Enrol employees in external programmes offered by training providers	36%
Job shadowing opportunities (i.e., learn from other employees with different job scopes)	36%
Obtain certifications via Massive Open Online Courses (e.g., Coursera, Udemy)	34%
Offer short, bite-sized courses (e.g., mobile or micro-learning)	33%
Mentoring programmes (i.e., paired with a senior employee)	31%



Employers are twice as optimistic about Singapore's job market as compared to 2020, with many intending to hire more.



of **employers** are either **'very optimistic', 'optimistic' or 'somewhat optimistic'** about the Singapore job market right now.



Very optimistic Optimistic Somewhat optimistic Somewhat pessimistic Pessimistic Very Pessimistic Figures are rounded to the nearest whole number.

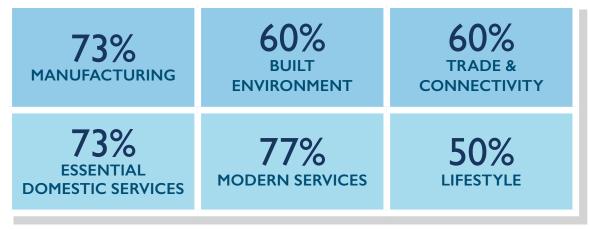
Employers in **Manufacturing (87%)** are the most optimistic about the Singapore job market, followed by those in **Trade & Connectivity** and **Essential Domestic Services (80%)**. However, employers in **Modern Services (67%)** are the least optimistic about the job market.



of **employers have been hiring or intending to hire** new talent to meet their company's current business goals.

Employers are keen to hire more talent to meet their company's business goals as compared to the previous year. While many employers are actively hiring, there is some hesitation on the part of employees – as the bulk of employees indicate that they are **open to, but not actively job hunting (60%).** 

#### EMPLOYERS WHO HAVE BEEN HIRING OR INTENDING TO HIRE NEW TALENT:



Employers in **Modern Services (77%)** are the most likely to hire new talent to meet their company's current business goals. Although **employers in Lifestyle (50%)** are the least likely to hire new talent, **employees in Lifestyle (77%)** are the most likely to look for a new job.

#### TOP FIVE DEPARTMENTS WHERE EMPLOYERS ARE INTENDING TO HIRE



Overall, employers are more willing to hire across departments compared to the previous year. The 2020 survey found that employers were more likely to hire candidates for IT & Digital (45%), Business Operations (39%), Leadership & Management (26%), Product Development (27%) and Human Resources (17%) departments.

#### Data Analysis, Digital Marketing and Strategy & Operations are among the top job roles that employers are looking to hire for.

According to employers, **Data Analysis (54%)** and **Data Visualisation** (42%) are the top job roles their organisation is looking to fill. Similarly, **Data Analysis (52%)** and **Data Visualisation (34%)** are among the top three data science jobs which employees are looking to enter.

#### TOP TEN DATA SCIENCE JOB ROLES WHICH EMPLOYERS ARE HIRING FOR

Data Analysis	- 54%
Data Visualisation	- 42%
Probability & Statistics	- 34%
Machine Learning	- 32%
Big Data	- 31%
Data Management	- 29%
Business Intelligence Analysis	- 26%
Artificial Intelligence	- 23%
Data Mining	- 22%
Data Modelling	- 22%

Employers' hiring sentiments towards marketing job roles are consistent with that of employees. Employees are similarly most willing to upgrade their skills to pursue job roles in **Digital Marketing (46%)**, **Digital Strategy (42%)** and **Social Media Marketing (36%)**.

#### TOP TEN MARKETING JOB ROLES WHICH EMPLOYERS ARE HIRING FOR

Digital Marketing	45%
Digital Strategy	41%
Social Media Marketing	32%
Public Relations	30%
Product Marketing	<b>29</b> %
Content Marketing	26%
Brand Management	26%
Digital Community Management	25%
Account Management	20%
Media Planning	18%

**Strategy & Operations (45%)** is top role employers are looking to fill, followed by **Leadership & Management (29%)**. To a similar extent, employees also indicate that **Leadership & Management (40%)** and **Strategy & Operations (36%)** are the top business and sales jobs which they are most keen to explore.

#### TOP TEN BUSINESS AND SALES JOB JOLES WHICH EMPLOYERS ARE HIRING FOR

Strategy & Operations	45%
Leadership & Management	<b>29%</b>
Market Research	25%
Business Development	25%
E-Commerce	23%
Human Resources	22%
Management Analysis	20%
Sales -	18%
Partnerships	18%
Customer Success	18%

Consistent with the hiring sentiments, jobs in Data Analysis, Digital Marketing and Strategy & Operations are instrumental roles for achieving business outcomes.

#### TOP TEN DATA SCIENCE JOB ROLES WHICH EMPLOYERS DEEM IMPORTANT

Data Analysis	<u> </u>
Data Visualisation	<u> </u>
Data Management	<u> </u>
Data Mining	<u> </u>
Statistical Programming	<u> </u>
Artificial Intelligence	<u> </u>
Machine Learning	<u> </u>
Probability & Statistics	<u> </u>
Business Intelligence Analysis	<u> </u>
Data Modelling	<u> </u>

#### TOP TEN MARKETING JOB ROLES WHICH EMPLOYERS DEEM IMPORTANT

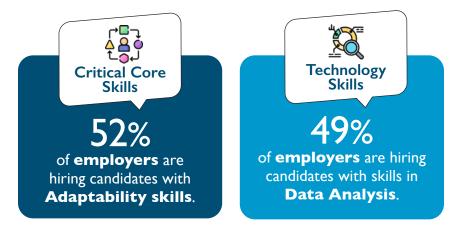
Digital Marketing	56%
Social Media Marketing	51%
Brand Management	48%
Digital Strategy	<b>47</b> %
Content Marketing	36%
Public Relations	32%
Product Marketing	32%
Media Planning	30%
Digital Community Management	24%
Community Management	

#### TOP TEN BUSINESS AND SALES JOB ROLES WHICH EMPLOYERS DEEM IMPORTANT

Strategy & Operations	51%
Leadership & Management	45%
Business Development	35%
Management Analysis	32%
E-Commerce	32%
Market Research	32%
Human Resources	27%
Customer Success	27%
Management & Organisation Analysis	26%
Sales	26%

## Adaptability and Data Analysis skills are the top competencies coveted by employers.

#### TOP SKILLS EMPLOYERS ARE LOOKING TO HIRE



#### Adaptability (52%), Developing People (48%) and

**Collaboration (44%**) are the top critical core skills employers look for when hiring candidates.

#### TOP TEN CRITICAL CORE SKILLS WHICH EMPLOYERS ARE LOOKING TO HIRE

Adaptability	52%
Developing People -	48%
Collaboration	44%
Communication	43%
Creative Thinking	42%
Problem Solving	40%
Decision Making	37%
Learning Agility	36%
Digital Fluency	32%
Global Perspective	29%

In 2020, employers revealed that the top three technology skills which their workforce lacked relates to **Digital Marketing, Data Analysis and Project Management skills**. This is consistent with the current finding as employers reveal that these competencies remain among the top five skills which their organisation is hiring for.

#### TOP TEN TECHNOLOGY SKILLS WHICH EMPLOYERS ARE LOOKING TO HIRE

Data Analysis	- 4
Cybersecurity	- 4
Digital Marketing	- 4
Project Management	- 4
Artificial Intelligence / Machine Learning	_ 4
Data-Driven Decision-Making	- 3
Basic IT Support	- 3
Governance, Risk Management and Personal Data Protection	- 2
Web / App Design &Development	- 2
Robotic Process Automation	- 2

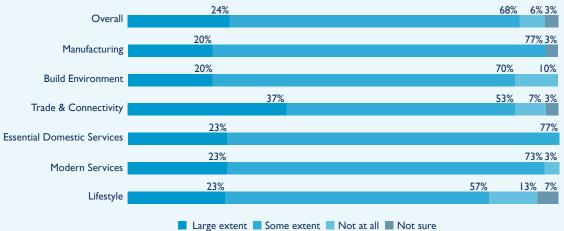
Employers anticipate greater digital transformation where technologies such as big data analytics will be adopted at the workplace.

85%

of employers say that COVID-19 has brought about digital transformation to either a 'large extent' or 'moderate extent' in their organisation. <u>92%</u>

of **employers** indicate that their company will be increasing digitalisation to either a **'large extent' or 'some extent'** at work to achieve stronger business outcomes.

Although most employees (81%) are concerned about the impact of digital transformation on their jobs, employers anticipate that their organisation will likely **increase digitalisation** to achieve stronger business outcomes.



Figures are rounded to the nearest whole number.

Figures are rounded to the nearest whole number.

Employers in **Essential Domestic Services** are in full agreement that digital transformation will be increased either to a **'large extent' (23%)** or **'some extent' (77%)**. Yet, employers in **Trade & Connectivity (37%)** are most likely to indicate that their organisation will be increasing digitalisation to a **'large extent'**.

#### TOP FIVE TECHNOLOGIES THAT EMPLOYERS BELIEVE WILL BE ADOPTED BY THEIR COMPANY

Big data analytics	<b>49</b> %
Internet of things and connected devices	36%
E-commerce and digital trade	35%
Artificial intelligence	33%
Cloud computing	31%

Employees and employers share a similar outlook about the proportion of tasks which will be performed by technologies in the next two years. Employees (66%) and employers (62%) expect that information and data processing tasks are likely to have the greatest portion of work performed by technologies. Additionally, both employers and employees believe that an average of 54% of administrative work and 51% of physical/manual work activities will be performed by technologies.

#### **RATIO OF WORK PERFORMED BY TECHNOLOGIES**

Information and data processing	<b>— 62%</b>
Administrative work	— 54%
Performing physical and manual work activities	- 51%
Customer service	<b>— 43%</b>
Project management	— 37%
Sales and business development	— 37%
Communication and interaction	— 36%
Reasoning and decision making	— 33%
Consulting/ advising	- 31%
People management	<b>— 28%</b>

## Greater emphasis on upskilling the workforce to keep pace with digital transformation.

While many employees fear that technology adoption could displace jobs, employers share an entirely different outlook. Employers believe that workforce upskilling is the main outcome of digital transformation and technology adoption. It is also apparent that employers place higher priority on developing the competencies of existing employees as opposed to hiring new talent who possess the right skillsets.

#### TO ADAPT TO COVID-19, EMPLOYERS BELIEVE THAT THEIR COMPANY NEEDS TO FOCUS ON THE FOLLOWING STRATEGIES:

Flexible work arrangements (e.g., remote working, flexible work hours)	<b>-62%</b>
Leverage technology to increase digitalisation/automation	<b>— 57%</b>
Reskilling/upskilling employees with relevant skills	<b>-49%</b>
Provide employees with support system for well-being (e.g., employee assistance program, counselling, peer network)	-43%
Attract new talent with relevant skills	-37%

#### TOP FIVE EFFECTS OF DIGITALISATION ON THE WORKFORCE

Reskilling/upskilling employees to meet new skill demands	- 57%
Employees will spend less time in automated/repetitive work	- 54%
Employees will have to take on hybrid roles (i.e., roles that require a mix of different skill sets)	- 54%
Employees will spend more time on activities that technology is less capable of (e.g., managing people, decision making, creative thinking)	<b> 48%</b>
Hiring talent with specialised skills in digital technology	_ 35%

#### ACCORDING TO EMPLOYERS, TECHNOLOGY ADOPTION...

Only leads to upskilling/reskilling, and not layoffs	— 40%
Cannot replace soft skills (e.g., communication, EQ)	— 33%
Can only replace certain roles (e.g., highly manual, repetitive tasks)	— 33%
Cannot take on the development and management of human capital	— 27%
Cannot replace decision making skills	— 27%

## Hybrid roles continue to be instrumental in achieving business objectives.



of **employers** either '**strongly agree', 'agree' or 'somewhat agree'** that there is a greater need for employees in **hybrid roles** to meet their business objectives in the next two years.



The need for employees in hybrid roles has remained relatively stable where 99% of employers say so in 2020.



79% of **employers** are looking to hire candidates with a **broader set of skills to take up hybrid roles** as compared to 71% in 2020.



## EMPLOYERS WHO ARE LOOKING TO HIRE CANDIDATES WITH A BROADER SET OF SKILLS TO TAKE UP HYBRID ROLES:

77% manufacturing	77% BUILT ENVIRONMENT	77% TRADE & CONNECTIVITY
83% ESSENTIAL DOMESTIC SERVICES	87% MODERN SERVICES	70% LIFESTYLE

The hiring sentiments for generic and hybrid roles are consistent as employers in **Modern Services (87%)** are the most likely to hire candidates with broader skillsets to take up hybrid roles, whereas employers in **Lifestyle** (70%) are the least likely to say so.

Problem Solving and Data Analysis skills are key skillsets which employers believe are important to achieving business goals.

**Problem Solving, Adaptability, Communication and Decision Making** are similarly among the top five critical core skills which employees deem important to have.

#### TOP TEN CRITICAL CORE SKILLS WHICH EMPLOYERS DEEM IMPORTANT

Problem Solving	68%
Adaptability	57%
Communication	55%
Decision Making	55%
Developing People	46%
Creative Thinking	45%
Collaboration -	42%
Learning Agility	40%
Transdisciplinary Thinking	36%
Self-Management	35%

Both **employees (50%)** and **employers (57%)** believe that **Data Analysis skills** is the topmost important technology skill.

#### TOP TEN TECHNOLOGY SKILLS WHICH EMPLOYERS DEEM IMPORTANT

Data Analysis	- 57%
Digital Marketing	- 44%
Data-Driven Decision-Making	- 43%
Cybersecurity	- 42%
Artificial Intelligence / Machine Learning	- 41%
Project Management	- 38%
Governance, Risk Management and Personal Data Protection	- 30%
Web / App Design & Development	- 29%
Basic IT Support	- 28%
Robotic Process Automation	- 26%

Due to the shortage of talent, employers are planning to increase workforce learning efforts as compared to 2020.



of **employees find it difficult to fill roles** due to **a shortage of talent** with the relevant skills.



Generally, employers continue to have trouble filling roles due to the shortage of talent whereby 72% of employers experienced the same difficulty in 2020.



of employers have been training or intending to train existing employees to meet current business goals.

#### EMPLOYERS WHO INTEND TO UPSKILL THEIR WORKFORCE:

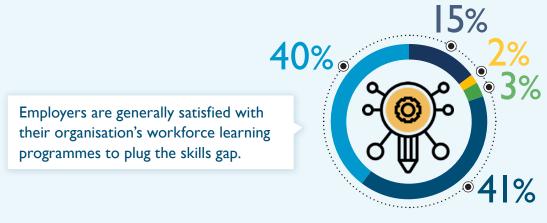
90% manufacturing	80% BUILT ENVIRONMENT	73% TRADE & CONNECTIVITY
83% ESSENTIAL DOMESTIC SERVICES	<b>83%</b> MODERN SERVICES	83% LIFESTYLE
Employers in <b>Manufacturing (90%)</b> are the most likely to uptrain employees to meet the current business goals, whereas employers in <b>Trade &amp; Connectivity (73%)</b> are the least likely to say so.		

Nearly three in five employers reveal that they plan to use a mix of **both internal and external training** to upskill and reskill the workforce in the next two years.



Figures are rounded to the nearest whole number.

While employers are generally satisfied with their organisation's learning and development programmes, many employees reveal that they desire a more active role from their company to support them in skills upgrading.



Very satisfied Satisified Somewhat satisfied Not really satisfied Not satisfied at all

Although employers acknowledge that on the job training is the most effective way to support employees in upskilling, employees reveal that their company could provide more support by **assigning specific courses to attend (47%)** and providing employees with a **budget for upskilling purposes (42%)**.

#### TOP EIGHT WAYS TO UPSKILL THE WORKFORCE

On the job training	47%
Job shadowing opportunities (i.e., learn from other employees with different job scopes)	46%
Mentoring programmes (i.e., paired with a senior employee)	44%
Enrol employees in external programmes offered by training providers	42%
Offer short, bite-sized courses (e.g., mobile or micro-learning)	38%
Assign specific courses for employees to attend (e.g., face-to-face/ virtual classes)-	33%
Obtain certifications via Massive Open Online Courses (e.g., Coursera, Udemy) —	31%
Buddy programmes (i.e., paired with a peer)	29%

# SKILLS & JOB TRENDS BY INDUSTRY CLUSTER

### MANUFACTURING CLUSTER

ELECTRONICS, MARINE & OFFSHORE AND AEROSPACE AND ENERGY & CHEMICALS

> of **employers** are either '**very optimistic', 'optimistic' or 'somewhat optimistic'** to about the Singapore job market.

> > of **employers** indicate that their company will **increase** digitalisation to either a 'large extent' or 'some (extent' at work to achieve stronger business outcomes.



87%

of employers find it difficult to fill roles due to a shortage of talent with the relevant skills.



of **employers have been training or intending to train existing employees** to meet current business goals.



#### HIRING TRENDS

of **employers** are looking to hire candidates with a **broader set of skills to take up hybrid roles**.



of **employers have been hiring or intending to hire** new talent to meet their company's current business goals.

#### TOP FIVE DEPARTMENTS WHERE EMPLOYERS ARE INTENDING TO HIRE



### TOP TEN JOB ROLES WHICH EMPLOYERS ARE LOOKING TO HIRE

Strategy & Operations	<b>59%</b>
Brand Management	45%
Data Analysis	45%
Probability & Statistics	36%
Public Relations	36%
Digital Strategy	36%
Digital Marketing	36%
Big Data	32%
Product Marketing	32%
Leadership & Management	27%

#### TOP COMPETENCIES IN DEMAND

### TOP FIVE CRITICAL CORE SKILLS WHICH EMPLOYERS ARE LOOKING TO HIRE

Adaptability	<b>——</b> 45%
Collaboration	41%
Developing People	41%
Communication	41%
Problem Solving	<b>36%</b>

Project Management	41%
Data-Driven Decision-Making	36%
Robotic Process Automation	36%
Digital Marketing	36%
Web / App Design & Development	32%

### BUILT ENVIRONMEN TI UST

CONSTRUCTION, REAL ESTATE, ENVIRONMENTAL SERVICES AND SECURIT



of employers are either 'very optimistic', 'optimistic' or 'somewhat optimistic' to about the Singapore job market.

> of **employers** indicate that their company will **increase** digitalisation to either a 'large extent' or 'some **extent'** at work to achieve stronger business outcomes.



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of employers have been training or intending to train existing employees to meet current business goals.

## HIRING TRENDS

of **employers** are looking to hire candidates with a **broader** set of skills to take up hybrid roles.



of employers have been hiring or intending to hire new talent to meet their company's current business goals.

#### TOP THREE DEPARTMENTS WHERE EMPLOYERS ARE **INTENDING TO HIRE**



Leadership & Management Business Operations







**Product Development** 

Management Analysis	50%
Data Analysis	50%
Account Management	50%
Data Visualisation	44%
Public Relations	44%
Digital Strategy	44%
Strategy & Operations	39%
Probability & Statistics	39%
Machine Learning	39%
Digital Marketing	33%

#### TOP COMPETENCIES IN DEMAND

### TOP FIVE CRITICAL CORE SKILLS WHICH EMPLOYERS ARE LOOKING TO HIRE

Adaptability	61%
Decision Making	50%
Problem Solving	50%
Creative Thinking	44%
Communication	44%

Cybersecurity	61%
Basic IT Support	56%
Project Management	50%
Artificial Intelligence / Machine Learning	44%
Digital Marketing	44%

# TRADE & CONNECTIVITY

AIR TRANSPORT, SEA TRANSPORT, LAND TRANSPORT, LOGISTICS AND WHOLESALE TRADE

> of **employers** are either '**very optimistic', 'optimistic' or** '**somewhat optimistic'** to about the Singapore job market.



of **employers** indicate that their company will **increase digitalisation to either a 'large extent' or 'some extent'** at work to achieve stronger business outcomes.





of **employers find it difficult to fill roles** due to a **shortage of talent** with the relevant skills.



of **employers have been training or intending to train existing employees** to meet current business goals.



#### HIRING TRENDS

of **employers** are looking to hire candidates with a **broader set of skills to take up hybrid roles**.



of **employers** have been **hiring or intending to hire** new talent to meet their company's current business goals.

#### TOP THREE DEPARTMENTS WHERE EMPLOYERS ARE INTENDING TO HIRE







Strategy & Operations	- 61%
Data Analysis	- 56%
Data Visualisation	- 44%
Data Management	- 44%
Digital Marketing	- 44%
Product Marketing	- 44%
Probability & Statistics	- 39%
Machine Learning	- 39%
Big Data	- 39%
Business Development	- 33%

#### TOP COMPETENCIES IN DEMAND

### TOP FIVE CRITICAL CORE SKILLS WHICH EMPLOYERS ARE LOOKING TO HIRE

Transdisciplinary Thinking	- 50%
Sense Making	- 44%
Collaboration	- 44%
Adaptability	- 44%
Learning Agility	- 44%

Artificial Intelligence / Machine Learning	- 50%
Data-Driven Decision-Making	- 50%
Cybersecurity	- 44%
Data Analysis	- 44%
Governance, Risk Management and Personal Data Protection	- 33%

### ESSENTIAL DOMESTIC SERVICES CLUSTER HEALTHCARE AND EDUCATION

of **employers** are either **'very optimistic', 'optimistic' or 'somewhat optimistic'** to about the Singapore job market.

> of **employers** indicate that their company will **increase digitalisation to either a 'large extent' or 'some extent'** at work to achieve stronger business outcomes.



of **employers find it difficult to fill roles** due to **a shortage of talent** with the relevant skills.



83%

of **employers have been training or intending to train existing employees** to meet current business goals.

#### HIRING TRENDS

of **employers** are looking to hire candidates with a **broader set of skills to take up hybrid roles**.



of **employers** have been **hiring or intending to hire** new talent to meet their company's current business goals.

#### TOP THREE DEPARTMENTS WHERE EMPLOYERS ARE INTENDING TO HIRE





**41%** Business Operations





Data Visualisation	<b>59%</b>
Data Management	55%
Data Analysis	55%
Strategy & Operations	<b></b>
Digital Strategy	<b>——</b> 45%
Data Mining	<b>——</b> 45%
Public Relations	41%
Leadership & Management	36%
Data Modelling	36%
Business Intelligence Analysis	36%

#### TOP COMPETENCIES IN DEMAND

### TOP FIVE CRITICAL CORE SKILLS WHICH EMPLOYERS ARE LOOKING TO HIRE

Developing People	- <b>59%</b>
Decision Making	- 55%
Adaptability	- 50%
Collaboration	- 45%
Creative Thinking	- 41%

Data Analysis	— 73%
Governance, Risk Management and Personal Data Protection	— 55%
Artificial Intelligence / Machine Learning	— 50%
Cybersecurity	— 45%
Project Management	— 41%

### MODERN SERVICES CLUSTER



PROFESSIONAL SERVICES, ICT & MEDIA, AND FINANCIAL SERVICES

> of **employers** are either **'very optimistic', 'optimistic' or 'somewhat optimistic'** to about the Singapore job market.

> > of **employers** indicate that their company wil **increase digitalisation to either a 'large extent' or 'some extent'** at work to achieve stronger business outcomes.



of **employers find it difficult to fill roles** due to **a shortage of talent** with the relevant skills.

83% of

of **employers have been training or intending to train existing employees** to meet current business goals.



#### HIRING TRENDS

of **employers** are looking to hire candidates with a **broader set of skills to take up hybrid roles**.



of **employers** have been **hiring or intending to hire** new talent to meet their company's current business goals.

#### TOP THREE DEPARTMENTS WHERE EMPLOYERS ARE INTENDING TO HIRE









**35%** Leadership & Management

Data Analysis	- 57%
Digital Marketing	- 57%
Big Data	- 52%
Strategy & Operations	- 43%
Digital Strategy	- 43%
Leadership & Management	- 39%
Data Visualisation	- 39%
Machine Learning	- 35%
Human Resources	- 30%
Business Development	- 30%

#### TOP COMPETENCIES IN DEMAND

### TOP FIVE CRITICAL CORE SKILLS WHICH EMPLOYERS ARE LOOKING TO HIRE

Collaboration	52%
Developing People	- 52%
Learning Agility	- 48%
Creative Thinking	- 43%
Problem Solving	- 39%

Cybersecurity	<b>57%</b>
Data Analysis	57%
Artificial Intelligence / Machine Learning	<b>52%</b>
Digital Marketing	43%
Agile / Scrum	43%

#### 

FOOD SERVICES, FOOD MANUFACTURING, RETAIL AND HOTELS

of **employers** are either '**very optimistic', 'optimistic' or** '**somewhat optimistic'** to about the Singapore job market.



90%

of **employers** indicate that their company will **increase digitalisation to either a 'large extent' or 'some extent'** at work to achieve stronger business outcomes.



of employers find it difficult to fill roles due to a **shortage of talent** with the relevant skills.



of employers have been training or intending to train existing employees to meet current business goals.



HIRING TRENDS

of employers are looking to hire candidates with a broader
set of skills to take up hybrid roles.



of **employers** have been **hiring or intending to hire** new talent to meet their company's current business goals.

#### TOP THREE DEPARTMENTS WHERE EMPLOYERS ARE INTENDING TO HIRE









Data Analysis	- 67%
E-Commerce	- 60%
Digital Marketing	- 60%
Business Intelligence Analysis	- 53%
Content Marketing	- 53%
Brand Management	- 53%
Social Media Marketing	- 47%
Product Marketing	- 47%
Market Research	- 40%
Public Relations	- 40%

#### TOP COMPETENCIES IN DEMAND

### TOP FIVE CRITICAL CORE SKILLS WHICH EMPLOYERS ARE LOOKING TO HIRE

Adaptability	- 80%
Communication	- 67%
Problem Solving	- 53%
Customer Orientation	- 53%
Learning Agility	- 53%

Project Management	60%
Digital Marketing	60%
Data Analysis	53%
Basic IT Support	47%
Cybersecurity	47%



he pandemic was indeed a catalyst for digitalisation where the pace of the technology adoption has not relented since<sup>4</sup>. As we enter the third year of living with COVID-19, it has become apparent that businesses, roles and career paths will continue to be redefined<sup>5</sup>. Workers are well aware of the effects of digitalisation and most are apprehensive of the changes it brings (81%). This fear has thus fueled employees to seek out training to upgrade their skillsets in order to emerge stronger and more resilient amidst this period of uncertainty. This has led many to upskill on their own outside of work (62%), with an overwhelming majority hoping for more support from their employers (90%).

There is also a pressing need for employers to drive human-centric company transformation. Employers must recognise that digitalisation is less about technology, but more about the people – where the ability to adapt to a digital future depends on the development of skills<sup>6</sup>. While many employers are actively hiring, it is key that organisations supplement it with workforce learning to develop the skills of existing employees. The top technology skills in demand include Data Analysis (49%), Cybersecurity (45%) and Digital Marketing (44%). While the emphasis has been on digitalisation, we should not discount the importance of adaptive skills. Generally, the top critical core skills in demand include Adaptability (52%), Developing People (48%) and Collaboration (44%).

As we continue to navigate through the COVID-19 storm, it is instrumental for employees and employers to embrace a mindset with the will to learn over time as the demand for different skills evolves<sup>7</sup>. It is essential to build a learning culture within the organisation such that workers will continue to develop new technical competencies to match the pace of technological change and build complementary adaptive skills required in today's digital age.

<sup>4</sup> Forbes. 2021. The Unprecedented Pace of Change. [Accessed 27 December 2021].

<sup>5</sup> PwC. 2021. Hopes and Fears 2021 – Singapore Report. [Accessed 27 December 2021].

<sup>6</sup> Harvard Business Review. 2021. Digital Transformation Is About Talent, Not Technology. [Accessed 27 December 2021].

<sup>7</sup> BCG. 2021. Future of Jobs in the Era of Al. [Accessed 27 December 2021].

# RECOMMENDATIONS TO EMPLOYEES

#### I. MASTER YOUR CAREER PATH

Employees should take stock of their current skillsets and reassess the core skills needed for future job roles in their sector or sectors which they wish to pivot into. Learning should not stop when formal education ends, especially on the back of pandemic-fueled changes in the world of work. Stay prepared for disruption by enhancing your knowledge on new industry developments to align your goals with the relevant in-demand skills.

"Employees are understandably fearful during a period of economic uncertainty to venture into new job roles. This 'flight to safety' also explains employees' hesitancy in looking at new areas for employment. Yet, it should not be a fear that paralyses and makes us powerless to act. Instead, it should provide the impetus to step out of our comfort zone, so as to have access to greater and more exciting opportunities in the future."

- Mayank Parekh, CEO at Institute of Human Resource Professionals (IHRP)



#### 2. DEVELOP DIGITAL FLUENCY AS A CORE SKILL

As technology has propelled businesses into the digital realm, employees should consider how digitalization can be used as a tool to support their work, rather than fear the prospect of job displacement. Digital fluency, according to SkillsFuture Singapore, is defined as "Leveraging digital technology tools, systems, and software across work processes and activities to solve problems, drive efficiency and facilitate information sharing." Possessing such know-how not only helps with making one more efficient, but also future-proofs individuals by enhancing their employability.

"Businesses have transformed, and so have many workplaces with digitalisation. Many employers are now integrating various apps and software into their business functions. Therefore, having technological knowledge, and upskilling in technology skills is key to boost individuals' employability. Workers who are able to adapt well with digital transformation will be considered an asset to the organisations they work for, regardless of which sector they are in, as digital skills today are easily transferrable across job functions and sectors. The concept automation or artificial intelligence (AI) may be daunting to some, however employees need to embrace digitalisation as a progress in the way we do things, which will help tremendously in their daily work."

- Anthony Chew, Director of Infocomm Technology at NTUC LHUB

#### 3. SHARPEN ADAPTIVE SKILLS FOR HUMAN-CENTRIC DIGITAL WORKPLACE

Although digitalisation may displace routine and administrative tasks, it provides the opportunity for workers with the right skillsets to be redeployed into higher-value jobs. Workers must hone adaptive skills to supplement the shortcomings of technologies. It is key for workers to invest not only in technology skills, but also in critical core skills which will be an advantage regardless of the market disruptions.

"Businesses are accelerating their digital platforms for better customer experiences as well as operational efficiency. But humans with critical core skills are still needed to reap the full benefits of technology. Workers should work with their supervisors and employers to understand what these critical core skills are at their workplace and how they can upskill to take advantage of opportunities." - Mayank Parekh, CEO at IHRP





#### 4. TRANSLATE NEW KNOWLEDGE INTO SKILLS TO TAKE ON HYBRID ROLES

As technology becomes increasingly pervasive in the modern workplace, jobs will continue to be redesigned to allow workers to take on higher value chain roles. With this transition, it is critical for employees to seize workplace learning opportunities to not only acquire knowledge but to also apply it in their work. The translation of acquired knowledge into applicable competencies is essential in negotiating the growing technology component in our roles and responsibilities. Initiate a conversation with employers to provide ample opportunity to translate new knowledge to higher levels of expertise.

"Hybrid roles emerge when companies redesign tasks to make better use of the limited manpower to meet resource needs across the entire value chain. We should encourage employees to seize this opportunity to broaden their roles by translating knowledge and experience into skills when performing new tasks."

- Mayank Parekh, CEO at IHRP

# RECOMMENDATIONS TO EMPLOYERS

#### 5. ADDRESS FEARS OF JOB DISPLACEMENT

Employers should communicate and reassure workers that digital transformation does not equate to lay-offs, but rather upskilling and reskilling is a key strategy that the organization will focus on. By openly communicating this view, employees will feel that they are valued and have a sense of belonging to the company in the long haul.

"Some jobs will go away, but there will also be new jobs created. Studies show that successful organisations are those that share information in advance to prepare their workforce for the change that is coming. In doing so, companies gain employee trust and confidence in their growth and future." - Mayank Parekh, CEO at IHRP





#### 6. UPSKILL AND RESKILL TO PLUG SKILLS GAPS

To overcome the talent crunch where job vacancies are outpacing the talents available, a win-win solution is to invest in the employability of existing workers. This will in turn build competencies that create opportunities to improve business performance. In addition, building an internal talent pipeline has been proven to be more economical than recruiting new staff as and when the need arises.

"Retraining your existing workers is the place to start when developing a future-ready workforce. These workers already have institutional knowledge about the business, its processes, and customers. It is evident that the more successful organisations are those that have engaged their workers, provided context and given ample opportunities to those who are willing and able to upskill." - Mayank Parekh, CEO at IHRP

#### 7. PLACE WORKFORCE INVESTMENT ON TOP OF THE BUSINESS AGENDA

Employers should consider investing in effective metrics to evaluate their human capital and gather feedback from ground employees. Although frameworks to quantify an organisation's human capital remain nascent, employers need to put in a place an agile workforce investment strategy to better facilitate skills development for employees. To drive this strategic imperative, line-managers will need to actively support employees' skills development by listening to and addressing the obstacles workers face. By investing in employee training, employers stand to boost the company's business capabilities.

"Having an agile-ready workforce is key to remain resilient in future disruptions. Employees who are developed to swiftly adapt and adjust to operate successfully in times of adversities, will save businesses. Employers should work together with employees to make organisational shifts in upskilling by identifying skills gaps and planning for learning solutions. This will help in getting employees to work in cross-functional teams and effectively respond to changes at the workplace. Evolution is therefore necessary."



- Anthony Chew, Director of Infocomm Technology at NTUC LHUB

### 8. EMBRACE NEW LEARNING MODES TO PROMOTE LEARNING FLEXIBILITY

Remote working arrangements and digital disruptions have highlighted the need for innovative training methods which can provide more learning flexibility and convenience without compromising training quality. Employers can consider using educational technology to encourage upskilling and build a continuous learning culture in the workplace. With digital online learning platforms, employers can create better learning strategies and policies to direct and support employees towards skill development. Employers can harness the power of education technology to establish better matches for employees to opportunities based on their skills and competencies.

"Remote working from home and hybrid workplace arrangements have been the mainstay for many organisations today. As COVID-19 enters its third-year mark, it is time for employers to move forward and explore online modes of learning to develop and effectively engage their workforce. For example, online mobile learning platforms such as NTUC LearningHub's Learning eXperience Platform (LXP) app will soon allow companies to develop and implement learning and development solutions for employees through a customisable learning management system. Harnessing digital solutions will also provide opportunities for open two-way discussions between employers and employees, thereby enabling human-centric company transformation through training."

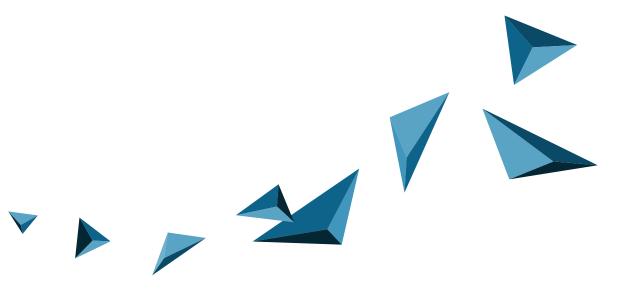


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To date, **NTUC LearningHub** has helped over 25,000 organisations and achieved over 2.6 million training places across more than 500 courses with a pool of over 900 certified trainers. As a Total Learning Solutions provider to organisations, we also forge partnerships and offer a wide range of relevant end-to-end training solutions and work constantly to improve our training quality and delivery. In 2020, we have accelerated our foray into online learning with our Virtual Live Classes and, through working with best-in-class partners such as IBM, DuPont Sustainable Solutions and GOI, asynchronous online courses.

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