

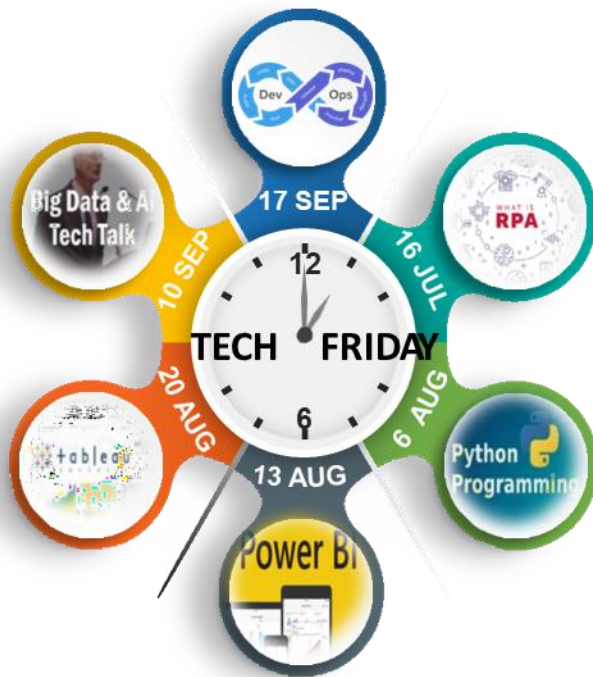
# Emerging Technology FutureSkills Catalog

- To Enable Your Digital Transformation Journey

Updated Version: 01 Aug 2021



## Upcoming Free Webinars



## Tech FRIDAY - Lunch & Learn -

Low Code and Robotic Process Automation (RPA), Agile/ Scrum, Cloud and DevOps, Containerisation, Python Programming, Data Analytics, Big Data & AI are popular emerging technologies that HK enterprises adopt and deploy in business; IT professionals should skill up to catch up with the wave of digital transformation under New Normal.

Let's stay turn with us for Tech Friday, in essence, 30 mins to understand more each of them.



Scan the QR code for **FREE seat reservation now!**

OR [click here](#) for enrolment

Webinar Topics	Schedule
Are you ready to enter the world of <b>Python</b> programming?	6 Aug 2021 (Fri)
How to facilitate Microsoft <b>Low code</b> Power Apps platform to boost your business growth?	13 Aug 2021 (Fri)
How to design <b>BI Solutions</b> for Senior Management?	20 Aug 2021 (Fri)
How does <b>AI</b> drive the digital transformation of business?	10 Sep 2021 (Fri)
How does CI/CD relate to <b>DevOps</b> , which is practised as an enabler for agile organisations?	17 Sep 2021 (Fri)

## TRAINING HIGHLIGHTS



Course	<b>E4.0: Low Code Software Development Hands-on Workshop (1 day)</b>
Course fee	Original Price HK\$1,200 May apply up to HK\$400* subsidy <small>*Maximum saving, with the final grant subjects to approval.</small>

This workshop allows you to gain an understanding of Low Code, which will become the software development trend of the future. Delivered by highly experienced Low Code specialists using a mixture of presentations, case studies, practical demonstrations and exercises.

Learn how Low Code is used to empower Digital Transformation Journey of Enterprises!




[Or Click Here](#)

MOST POPULAR

## Big Data & AI

### Big Data and Open-source Fundamentals Workshop (1 Day)

This 1 day course will describe the new best practice in big data analytics and how big data impacts the technology ecosystem. You will get to know why and how the open-source movement impacts the technology ecosystem. This course will also explain the key factors to identify and use different data visualization technology to communicate data in context.

### Python for Big Data Analytics Certificate Program (2 Days)

This 2 days course will use Python as the programming language across all analytics processes. Upon completion of this course, you will be able to use Python in data prepping tasks and prepare models for predictive analytics. You will learn how to use Pandas and various Python libraries, everything from importing spreadsheet data to processing sets for time-series analysis, machine learning and even AI.

### Machine Learning Programming Workshop in Tensorflow, Keras and Pytorch

This 1 day course will describe the application of Python programming using Tensorflow, Keras and Pytorch Libraries. Various innovative development approaches of machine learning and deep learning will also be covered.



## Big Data & AI (Cont.)

### ❑ Big Data Analytics: Essentials for Smart City (2 Days)



This course allows participants to learn and apply Business Intelligence Analysis in Smart City. Participants will get to understand Big Data concepts and the use of Big Data Map Reduce Techniques which helps efficient information dissemination. Participants will also learn about the practical use of Analytics on large-scale document management system, monitoring IoT devices, Smart Meter and Smart Drainage to enhance their project management skills for Smart-City.

### ❑ Big Data & Artificial Intelligence: Deep Learning & Application (2 Days)

Deep Learning Technology is a cross-discipline of technology among Big Data Analytics, Statistics and Neuroscience Technology. In this course, we will elaborate from the basics starting from big data machine learning concept, statistics methodology, and practical programmes running, commercial deployment for project managers.



### ❑ Enterprise 4.0: Data Analytics in Power BI for Business Users Workshop (1 Day)

It provides an overview of Power BI Desktop and the Power BI Cloud Service. Participants will equip themselves of full features of Business Intelligence and Data Literacy for model data-drive business.

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### ❑ Enterprise 4.0: Certificate in Power BI for Data Analytics (2 Days)

Participants will be able to analyze data from different data sources and create their own datasets; be able to comfortably work with the different tools of the Power BI universe and know how the different tools work together and dive deeper into Power BI and find out more about its advanced features.

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### ❑ Immersive Data Analytics Bootcamp – Tableau Certification Course

(Real live project-based BI solution training for developers from beginners to advanced)

This Bootcamp aims to develop participants' skills in data preparation, data visualization for building Management BI solutions and leveraging the trainer's project experience on different industry applications. Participants can learn practical data visualization skills to improve efficiency, leveraging data value for analytics and presentation. We will apply real business cases instead of feeding technical functions using Tableau Public.



DATA TECH  
Consulting Services



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Schedule and Enrolment](#)



## Agile & Scrum

### Professional Scrum Series

PMI credential holders can earn 14 PDUs for each course attendance



We are living with technologies like mobile, internet of things, artificial intelligence and machine learning that contribute to the rapidly changing markets with new products, competitors and regulations.

Scrum is a framework for developing, delivering, and sustaining complex products. It is the approach we can use to address complex adaptive problems while efficiently and creatively delivering products of the highest possible value.

HKPC Academy collaborates with Scrum HK to provide a series of certification training on scrum masters, product owners, user experience and DevOps to help IT professionals and enterprises to better equip their businesses and departments for agile transformation.

- Professional Scrum Master
- Professional Scrum Master II
- Professional Scrum Product Owner
- Professional Scrum User Experience
- Practical Training on Professional Scrum for Agile Transformation



It is a hands-on course that provides the knowledge needed to work with Scrum in a **highly practical way**. The course is a combination of instruction and team based exercises with actual Sprints. During the exercises, participants work in Scrum Teams over a series of Sprints to learn Scrum while using Scrum. Participants can experience first hand how the Scrum framework improves their ability to deliver value compared to traditional methods.



[Click Here](#)

### Leading SAFe® Agilist Certification Programme

This course rides on SAFe® 5.1, which is the latest version released in Feb, 2021.

In this 2-day course, participants will gain the knowledge necessary to lead a Lean Agile enterprise by using the Scaled Agile Framework SAFe® and its underlying principles derived from Lean, systems thinking, Agile development, product development flow and DevOps.



[Click Here](#)

## NEW Services



The diagram illustrates the components of Agile Transformation Consultancy Services. At the center is a circle labeled "Agile Transformation". Surrounding it are several interconnected circles representing key areas: "DevOps and Testing Automation", "Pilot", "Strategy", "Organization Design", and "Team and Technical Know-hows".

- DevOps and Testing Automation:** Utilizing collaboration to more reliably build, test, and release products on demand.
- Pilot:** Launch pilots to test the agile operating model in a defined area.
- Strategy:** A vision of and design for agile operating model.
- Organization Design:** Agile leadership, Organizational agility, Continuous learning culture.
- Team and Technical Know-hows:** Coaching and training.

Logos for hkpc Academy and ScrumHK are displayed in the top right corner. The text "Agile transformation consultancy services" is prominently featured in the bottom right, along with the slogan "Let's be Agile".

Inquiry Ms LAM | +852 2788 5800 | ecinfo@hkpc.org



## DevOps

### ❑ DevOps Foundation (DOFD®)



The 2-days DevOps Foundation programme is intended to provide participants with an understanding of basic DevOps concepts and how DevOps may be used to improve communication, collaboration and integration between software developers and IT operations professionals. Participants will get to know how to improve workflows and in return improving their ability to design, develop, deploy and operate software and services faster.



[Click Here](#)

### ❑ Scrum Developer with DevOps Training

- ❖ Full attendance can be awarded HKPC x Microsoft joint Certificate, and 21 PDUs can be earned for PMI credential holders



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Throughout the course, participants collaborate together as a team in a series of Sprints where they apply modern engineering practices, and use the Scrum framework to cope with changes.



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### ❑ DevOps Leader (DOL®)

This course is a unique and practical experience for participants who want to take a transformational leadership approach and make an impact within their organization by implementing DevOps.



[Click Here](#)



### ❑ Site Reliability Engineering (SRE) Foundation<sup>SM</sup>

This course introduces the principles and practices that enable an organizations to reliably and economically scale critical services. Introducing a site-reliability dimension requires organizational re-alignment, a new focus on engineering and automation, and the adoption of a range of new working paradigms



[Click Here](#)



### ❑ Continuous Testing Foundation (CTF)<sup>SM</sup>

This comprehensive course addresses testing in a DevOps environment and covers concepts such as the active use of test automation, testing earlier in the development cycle, and instilling testing skills in developers, quality assurance, security, and operational teams



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## Cloud

### Container Technology Series: Kubernetes (K8s)

#### ☐ Experience Hands-on Workshop on Kubernetes (K8s) - 1 Day



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Participants will learn the basic concepts of Kubernetes and have hands-on sessions interacting with K8s through the command line terminals. Ultimately participants can experience how to deploy containers, load tests, and best practices to design a high-traffic system to process transactions with dynamic compute resources in a sample application of 「WordPress」. With auto-scaling, both vertical and horizon, definitely can improve the system availability and reduce the cost of computing.

[Click Here](#)

#### ☐ Certified Kubernetes Administration (LSF458-CKA) (4 days)



This course offers exposure to the many skills necessary to administer Kubernetes in a production environment and is excellent preparation for the Certified Kubernetes Administrator (CKA) exam.

#### ☐ Certified Kubernetes Application Developers (LFD459-CKAD) (4 days)



This international certification is for Kubernetes engineers, cloud engineers and other IT professionals responsible for building, deploying, and configuring cloud native applications with Kubernetes. All participants completing the course will be registered for CKAD exam.

#### ☐ Essential Workshop for an accelerated path to successful Cloud Adoption



This workshop provides technical knowledge and guidance to help participants build an approach to comprehensive successful cloud adoption across their organisations and IT lifecycles.



[Click Here](#)

## [FutureSkills] Required for a successful IT Team

Continuous learning and skill improvement are key success factors of IT teams nowadays. We need to adjust IT strategy on the fly to align with current business objectives in an agile culture. So, mastering all below new skills development are essential to build a successful IT team in your organisation.

#### Programming

- ❖ Should have strong general programming skills, such as SQL, Java, Python, Ruby, Golang, Node.js, PHP and .NET.

6

[Know more...](#)

#### DevOps

- ❖ DevOps is a popular framework for cloud engineering, bringing development and operations approach in one mold.

1

[Know more...](#)

#### Cyber Resilience

- ❖ Knowledge of cyber resilience and put it into practice in the context of the cloud.

5

[Know more...](#)

#### Containerization (Docker/K8s)

- ❖ Should have proficiency of containerization tools and understand Docker and Kubernetes.

2

[Know more...](#)

#### Data Management

- ❖ Proper data management is a vital step toward better overall data health and
- ❖ Data management strategy can help to start delivering critical business intelligence in the organisation.

4

[Know more...](#)

### IT Team

#### Architecture

- ❖ Understanding various design practice of cloud, such as hybrid, multi-cloud, edge computing etc.
- ❖ Should have knowledge of open standards and how micro-services are designed.

3

[Know more...](#)

## Cloud (Cont.)

### Red Hat® Linux official Certificated Administration (RHCSA)



This course allow participants to learn essential Red Hat® Enterprise Linux configuration, administration, and maintenance in a condensed format. It combines Red Hat® System Administration I (RH124) and Red Hat® System Administration II (RH134), reviewing the tasks at an accelerated pace.



### Rapid Track Course for Red Hat Certified Specialist in OpenShift Administration II (DO285)



This course helps you gain core knowledge in building, configuring and managing Red Hat® OpenShift® Container Platform. This immersive and intensive, hands on course shows you how to deploy applications to a local container engines and OpenShift® clusters, manage the cluster on a day-to-day basis, and troubleshoot the deployment of containerized applications.



It is based on Red Hat® OpenShift® Container Platform 4.5 and combines the content from Red Hat® OpenShift® I: Containers & Kubernetes (DO180) and Red Hat® OpenShift® Administration II: Operating a Production Kubernetes Cluster (DO280).



[Click Here for Schedule and Enrolment](#)



### Advanced Microservices Certification Programme (2 Days)

The course provides a lot of hands on practices for participants to master the microservice approach for application development.



[Click Here](#)

## Software Development

### Improve the High-Quality Code Awareness of Development Workshop



We will discuss how to raise the awareness of code quality, from improving developers' morale, development team transformation, to recruitment best practice.



[Click Here](#)

### React Native: Rapidly develop native iOS and Android apps with JavaScript



Learn about developing user interfaces with React Native's layout and component support, and accessing the capabilities of native mobile platform.



[Click Here](#)

## Software Development (Cont.)

### ☐ Technical Training on UI/UX (2 Days)

Start by learning the practical UX design process, usability testing methodology, design tools and terminology to improve application adoption, customer satisfaction and workflow productivity.



[Click Here](#)

### ☐ Certified Entry-Level Python Programmer Certification (PCEP)

A Preparatory Course for PCEP International Certification Examination

Start programming in Python! Taking this course gives participants the opportunity to dive into computer programming.

Becoming PCEP certified ensures that the individual is acquainted with the most essential skills on Python 3 to enable him/her to start his/her own studies for the intermediate level and to continue further professional development.



[Click Here](#)

### ☐ Certified Associate in Python Programming (PCAP)

A Preparatory Course for PCAP International Certification Examination

Becoming PCAP certified ensures that the participant is fully acquainted with all the primary means provided by Python 3 to enable participants to start their own studies, and to open a path to developer's career.



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**PCAP – Certified Associate in Python Programming Certification**  
RTTP Fund with up to 2/3 subsidy

**PYTHON**

## Citizen Developer

### ☐ E4.0: Low Code Software Development Hands-on Workshop (1 day)

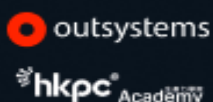
This workshop allows you to gain an understanding of Low Code, which will become the software development trend of the future. Participants with software development experiences from any background will be able learn to build full stack Web and Mobile Applications.

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All-day Workshop • August 31

**Web and Mobile Application Development with Emerging Low-Code Approach**

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## Citizen Developer (Cont.)

### Robotic Process Automation (RPA) Series

From Elementary to IT Professionals

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THE BEST RUN



#### ❑ Enterprise 4.0 RPA Hands-on Workshop (1 Day)



The workshop allows you to gain an understanding of best practices that even seasoned developers can benefit from. Candidates without any technical experience, will have chances to build their very first robots for real world automation. The workshop is delivered by highly experienced RPA and sourcing specialists using a mixture of presentations, case studies, practical demonstrations and exercises.

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#### ❑ Certificate on RPA for Executives: Start to Deploy a Robotic Workforce in Your Enterprise (2 Days)



This is an essential workshop for any executives and decision makers to plan and get started with RPA, automate many manual processes without investing a huge upfront cost.

- ✓ Guidelines on selecting the appropriate processes for automation
- ✓ How to prepare your Business Case for RPA and expected ROI
- ✓ Mapping existing process (As-Is) and planning to automated process (To-Be) with RPA
- ✓ Case sharing of actual deployment of successful RPA implementation
- ✓ 6 Hands on experience in automating processes by using RPA tool
- ✓ Build your first RPA project and learn how to monitor your Robot

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#### ❑ RPA 2.0: Advanced Troubleshooting Certification Training (2 Days)



It is an in depth program that participants will learn the technical knowhow and gain knowledge in design, develop and implement RPA process in a RPA tool with hands on exercises. Participants shall be able to develop complex RPA projects and to understand troubleshooting skills. Bring in real RPA trouble cases to get professional insights.

#### ❑ Blue Prism RPA Developer Certification Training (5 Days)



This course is custom-made for entry and associate level developers and can be given by anyone regardless of their technical background. Upon completion of the 5 days training, the participants will be "certification ready" and fully prepared to serve as a junior RPA developer capable of building enterprise grade automations for his or her company.



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## IoT

### Internet Of Thing (IoT) Series:

We will take a close look at how IoT empowers industry applications through case studies.

#### Introduction to IoT: Technologies and Applications (2 days)



This program aims at elaborating the core technologies, including RFID sensors, sensor networks and localization behind IoT and the applications in different scenarios derived from these technologies. It is suitable for any professional who wants to learn the application of IoT for designing a solution catering for specific needs.

#### IoT Certification Program: from Beginner to Advanced (5 days)



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It focuses on many hands-on practical exercises, including DIY sensor project, programming the weather station, and machine learning programs for IoT data. You will understand why we need a proper IoT platform and leverage it to manage multitude of devices, protocols and applications. Common IoT protocols such as HTTP, MQTT will be reviewed and compared.



[Click Here for Schedule and Enrolment](#)



## IT Service and Architecture

ITIL®4 is a new version of ITIL®, has started to be released since February 2019. The updated version includes new techniques that can be used by IT professionals to further improve efficiency and agile ITIL® with other methods like agile, DevOps and Lean.



**NEW**

#### ITIL®4 Specialist: Create, Deliver and Support

*The Accredited ITIL 4 Specialist Course | An Agile Way of Working Solutions*

It provides IT practitioners with an understanding of service quality and improvement methods, enabling them to continue to deliver innovative yet reliable tech-enabled services to their customers in an increasingly competitive market.

#### ITIL®4 Foundation

*The Accredited ITIL 4 Foundation Course | An Agile Way of Working Solutions*

This qualification will provide the candidate with an understanding of the ITIL 4 service management framework and how it has evolved to adopt modern technologies and ways of working.

[Click Here for Schedule and Enrolment](#)



## Cyber Security

SecurityScorecard  
LITE





Know Your Company, INSIDE OUT!

Evaluate an organisation's security profiles non-intrusively by collecting its digital footprints exposed



For Enquiry, please contact Mr Summ CHAN at +852-2788 5857 or email to [cybersec@hkpc.org](mailto:cybersec@hkpc.org)

## SERVICE HIGHLIGHTS

-  Enables organisations to **rate, understand, and monitor** the security risk of their organisations
-  **Non-intrusively** and from an outside-in perspective (same as a third-party or attacker)
-  **Easy to understand** A to F rating scale used to provide visibility of organisation's digital footprints in the cyber world
-  Categorised into **10 Risk Factors** in order to understand the weakest link in their networks



## SERVICES INCLUDE

SecurityScorecard LITE includes the following services:

- **ONE (1) Full Report** per month
- **ONE (1) Hour Consultancy Service** per month to explain the findings and alerts from the report
- **Continuous monitoring** and alert

SecurityScorecard is trusted by hundreds of worldwide industry leaders

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pepsi.

Symantec.

NETFLIX

## Enrolment Methods

1. Scan the QR code to find the course and proceed payment online.
2. Mail the crossed cheque with payee name "Hong Kong Productivity Council" (in HK dollar) and the application form should be mailed to HKPC Academy, Hong Kong Productivity Council, 3/F, HKPC Building, 78 Tat Chee Avenue, Kowloon (ATTN: Ms Cherry LAM). Please indicate the course name and course code on the envelope.



[Or Click Here](#)  
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## Supporting Organisations

