



Containers, Kubernetes, and Red Hat® OpenShift® Administration II (DO285)

An Intensive Preparatory Course with Exam Review for Red Hat® EX280



Course Fee: HK\$30,000 (May apply up to HK\$20,000 subsidy)

*Maximum saving, with the final grant subjects to approval.



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).

Programme code	10013221
Duration and time	5 days 9:30-17:00
Venue	1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong
Medium	Cantonese, supplemented with English terminology
Course fee	HK\$30,000 (May apply up to \$20,000* subsidy)
Prerequisites	Become a Red Hat® Certified System Administrator (RHCSA), or demonstrate equivalent Red Hat® Enterprise Linux system administration experience

Enrolment Methods

1. Scan the QR code to complete the enrolment and payment online OR
2. Mail the crossed cheque with payee name "Hong Kong Productivity Council" (in HK dollar) to HKPC Academy, Hong Kong Productivity Council, 3/F, HKPC Building, 78 Tat Chee Avenue, Kowloon (attention to Mr Desmond CHAN). Please indicate the course name and course code on the envelope.



[Enrolment Link](#)

Course Outline

- Describe how applications run in containers orchestrated by Red Hat® OpenShift® Container Platform
- Provision a service using container technology
- Modify prebuilt container images to create and manage containerized services
- Manage the life cycle of a container image from creation to deletion
- Design and code a Dockerfile to build a custom container image
- Use OpenShift® Container Platform to deploy single container applications
- Deploy applications that are containerized using multiple container images
- Describe the architecture of OpenShift Container Platform
- Describe OpenShift® installation methods and verify the health of a newly installed cluster.
- Configure authentication with the HTTPasswd identity provider and assign roles to users and groups
- Restrict permissions of applications using security context constraints and protect access credentials using secrets
- Troubleshoot OpenShift® software-defined networking (SDN) and configure network policies
- Control the nodes on which a pod runs
- Control the size of an OpenShift cluster
- Describe how to perform a cluster update
- Use the web console to manage a Red Hat® OpenShift® cluster
- Verify, manage, and troubleshoot an OpenShift® cluster for enterprise use

Course Content Summary

- ❖ Manage containers and container images
- ❖ Create custom container images
- ❖ Describe the Red Hat® OpenShift® Container Platform cluster installation and update processes
- ❖ Troubleshoot application deployment issues
- ❖ Control access to projects using groups and role-based access control (RBAC)



Included at least 6 hours intensive exam review and lab exercises for preparing to pass Red Hat® EX280

Award of Certificate of Accomplishment

Full Attendance will be awarded a Certificate of Accomplishment issued by the Hong Kong Productivity Council.

Assessment Certification

Participants will receive an exam voucher to attempt Red Hat® EX280 Exam. Red Hat® Certified Specialist in OpenShift® Administration certification require a minimum **passing score on the assessments.**

Speakers' Profile

Mr. Sunny CHAN has 14 years of post-education working experience. He became a Chief Software Architect of a Local software house for 7 years. Afterwards, he has switched to the domain of Cloud-related infrastructure and infrastructure as code with Red Hat[®] since 2015. Sunny has been working in Kubernetes for over 4 years.

Mr. Felix TSANG is BSc in Computer Science from the Chinese University of Hong Kong and is a Red Hat Certified Architect with expertise in cloud management and cloud computing technologies. He has rich experience in IaaS and PaaS solutions and has been working in Kubernetes for over 4 years.

Who Should Attend?

- ✓ Interested in understanding features and functionality of an System and software architects OpenShift[®] cluster
- ✓ System administrators who are interested in the ongoing management of clusters and containerized applications
- ✓ Cluster operators who are interested in managing access to cluster resources by users and applications
- ✓ Site reliability engineers interested in the ongoing maintenance and troubleshooting of a cluster

Special to HKCS members

- ❖ May enjoy up to HK\$300 Bookstore Coupon. **Promo Code: CS11HK2020**
- ❖ Can apply for the **certification of CPD hours**, this course hours will be counted.
Please visit: <http://www.hkcs.org.hk/continuous-professional-development-cpd/> for your information about CPD Hours.

Bring Your Own Device (BYOD): Windows 7/10 / Mac OS 10.x or above with minimum 2 GB RAM and 20 GB hard disk

RTTP Training Grant Application

Companies should submit their RTTP training grant application for their employee(s) via <https://rttp.vtc.edu.hk/rttp/login> at least two weeks before course commencement. Alternatively, [application form](#) could be submitted by email to rttp@vtc.edu.hk along with supporting documents.

Supporting Organisations (In arbitrary order)

