



399-HOUR EXCELLENCE CURRICULUM

2027 COHORT

AS200 — New DevOps Platform Engineer

Intensive 399-hour curriculum to master OpenShift, containerization, GitOps, virtualization, and multi-cluster security. Red Hat certifications included.



DURATION

399 h

57 days (12 weeks)

CERTIFICATIONS

EX280 + EX288

Exams + Retakes

PEDAGOGY MODEL

75% / 25%

Red Hat + Capstone

FORMAT

100% Live Remote

Sync + Labs 24/7

TARGET PROFILES & CAREER OPPORTUNITIES

Linux Administrators, Systems Engineers, Developers, and Cloud Technicians evolving into Certified DevOps and Platform Engineers on sovereign enterprise clouds.

2027 TUITION

€7,490 incl. VAT

(20% VAT included)

✓ Eligible for OPCO, Corporate training & Public funding



MANIFESTO & VISION

Aperta Scientia & Our Core Values



Aperta Scientia — 'open knowledge' in Latin — is a higher education engineering institution dedicated to AI, Hybrid Cloud, and Quantum. In an era of mass automation, we cultivate the deep desire to understand, training critical-thinking, sovereign builders capable of architecting and operating resilient production platforms.



The Desire to Learn

Learning is far more than consuming generated answers: we awaken intellectual curiosity and the joy of mastering system internals.



Thinking Minds & Builders

We train engineers who direct technology with architectural rigor, capable of designing and debugging without digital crutches.



Open Source Culture

Open source is our cornerstone: Red Hat technologies, Linux RHEL, Kubernetes, and active contribution to an enduring global ecosystem.



Equal Opportunity

Admissions rest purely on motivation and intellectual potential. Personalized accommodations for learners with disabilities (PSH).



Aperta Scientia Tech Radar — Ongoing Research & Intelligence

Leading-edge benchmarks on distributed LLM serving (vLLM, KServe, RHOAI), InstructLab fine-tuning, GitOps, and Quantum (Qiskit).

[Explore Radar →](#)



Why this curriculum? Industry Challenges

The European market faces a critical talent shortage in Cloud Native infrastructure. Kubernetes and Red Hat OpenShift are the de facto enterprise standards across banking, telecom, and public sectors. The Platform Engineer automates, secures, and bridges the gap between software developers and production operations.

**Red Hat**

A Historic Technology Partnership

Over 20 years of continuous Red Hat ecosystem expertise

RHLS Enterprise (365 Days)

Unlimited 24/7 access to all official Red Hat courses, downloadable e-books, and chaptered video modules with transcripts.

400+ Hours Dedicated Cloud Labs

Real bare-metal and multi-node clusters hosted on Red Hat's global infrastructure for hands-on practice in production conditions.

Expert Certified Instructors

100% live synchronous virtual classrooms led by certified Red Hat instructors at the peak industry level.

Exam Vouchers Included

Official remote proctored certification exam sittings, including free retake sessions.



The 75 / 25 Pedagogical Model

75% of the time is devoted to mastering official Red Hat courses (theory + guided labs). The remaining 25% is dedicated to the industrial capstone project and official certification exams.

[Red Hat Partner →](#)



57–Day Pedagogical Curriculum (399 Hours)

A structured 4–stage progression combining container foundations, advanced operations, specialization, and capstone engineering.

STAGE 1 · 13 DAYS (91H)

Container Foundations

Podman, Linux CLI, Skopeo, Buildah, rootless containers & OpenShift.



STAGE 2 · 17 DAYS (119H)

OpenShift Admin & Dev

Cluster administration, GitOps (ArgoCD), Tekton CI/CD pipelines.



STAGE 3 · 8 TO 12 DAYS

Virtualization & Security

KubeVirt (DO316), ACS Security (DO430), ACM.



STAGE 4 · 19 DAYS (133H)

Certifications & Capstone

Intensive exam prep bootcamp, certification sittings, and capstone.



Code	Module / Official Course	Duration	Key Competency
D0188	Podman & Containers Architecture	3d / 21h	Image creation, Podman, rootless containers
D0180	OpenShift I: Containers & Kubernetes	5d / 35h	Deploying and managing applications on OpenShift
D0280	OpenShift Administration II	5d / 35h	Cluster administration, RBAC, storage, network
D0288	OpenShift Development II: Containerizing Apps	5d / 35h	Tekton CI/CD pipelines, application builds
D0380	OpenShift Administration III: Scaling	5d / 35h	GitOps (ArgoCD), monitoring, logging, Day 2 ops
D0316	Managing Virtual Machines with OpenShift Virtualization	5d / 35h	KubeVirt virtual machines & VMware migration
D0430	Advanced Cluster Security (ACS) & ACM	3d / 21h	Proactive container security & fleet governance
B00T	Red Hat Certification Bootcamp (EX280 / EX288)	5d / 35h	Timed mock exams & official exam sittings
PROJ	Industrial Capstone Project & Jury Defense	15d / 105h	Full platform team deployment in production



ARCHITECTURE, GITOPS & SPECIALIZATION

Advanced Admin, GitOps & Security



An in-depth focus on the four key pillars of modern platform engineering: CI/CD automation (DO288), GitOps scaling (DO380), cloud-native virtualization (DO316), and proactive security (DO430).

DO288 — Développement OpenShift & Pipelines CI/CD (5 Jours / 35h)

Préparation EX288

Industrialisation des builds applicatifs et chaînes d'intégration continue cloud-native avec OpenShift Pipelines.

- ✓ Containerfile multi-étapes & builds automatisés
- ✓ Pipelines CI/CD déclaratifs avec Tekton
- ✓ Gestion des ConfigMaps & Secrets en CI/CD
- ✓ Stratégies de déploiement Blue/Green & Canary

DO380 — Admin OpenShift III : Scaling & Chaîne GitOps (5 Jours / 35h)

Day 2 Operations

Exploitation avancée, automatisation déclarative avec ArgoCD et observabilité de clusters à l'échelle.

- ✓ Déploiements continus GitOps avec ArgoCD
- ✓ Gestion des configurations Helm & Kustomize
- ✓ Observabilité : Prometheus, Alertmanager, Grafana
- ✓ Dimensionnement automatique (HPA/VPA) & journalisation

DO316 — Virtualisation OpenShift (KubeVirt) (5 Jours / 35h)

Convergence VMs

Unifier machines virtuelles et conteneurs sur Kubernetes pour accélérer la migration VMware.

- ✓ Déploiement et exploitation de VMs Linux & Windows
- ✓ Réseau avancé multus & stockage Ceph/ODF
- ✓ Haute disponibilité & migration à chaud (Live Migration)
- ✓ Passerelles de migration depuis VMware vSphere

DO430 — Sécurité ACS (StackRox) & Gouvernance ACM (5 Jours / 35h)

SecOps & Multi-Cluster

Sécurité proactive de la supply chain logicielle et pilotage unifié de flotte multi-cluster.

- ✓ Analyse des vulnérabilités runtime avec Red Hat ACS
- ✓ Politiques de conformité automatisées (CIS, NIST)
- ✓ Pilotage centralisé multi-sites avec Red Hat ACM
- ✓ Contrôle des admissions et contraintes SCC



ENTERPRISE STANDARDS & RED HAT ALIGNMENT



The 12 Core Technologies of the Track

Every technology is directly anchored into official curriculum courses to guarantee operational excellence in production.



Red Hat OpenShift

Red Hat OpenShift v4.18

D0280 • D0380

HA clustering, Ingress, RBAC, and Ceph/ODF storage.



kubernetes

Kubernetes Core v1.31

D0188 • D0280

Controllers, Services, NetworkPolicies & APIs.



Red Hat Enterprise Linux CoreOS

Red Hat CoreOS (RHCOS) v9.4

D0280 • D0380

Immutable Linux host OS for OpenShift & SELinux.



podman

Podman & Buildah v5.2

D0188

Rootless containers & multi-stage builds.



OpenShift GitOps (ArgoCD) v2.12

D0380

Continuous Git sync & Blue/Green rollout.



OpenShift Pipelines (Tekton)

v1.16

D0288

Serverless cloud-native CI/CD pipelines.



Red Hat OpenShift Virtualization Engine

OpenShift Virtualization v4.18

D0316

KubeVirt, Linux/Windows VMs & migration.



Red Hat Advanced Cluster Security for Kubernetes

Red Hat ACS (StackRox) v4.6

D0430

SecOps runtime security & CIS/NIST audits.



Red Hat Advanced Cluster Management for Kubernetes

Red Hat ACM (Fleet) v2.12

D0430 • D0380

Multi-cluster governance & fleet policy.



Red Hat Quay

Red Hat Quay Registry v3.12

D0188 • D0288

Clair vulnerability scan & geo-replication.



Ansible Automation v2.16

D0380

IaC playbooks & automated Day 2 operations.



Helm & Kustomize v3.16

D0288 • D0380

App packaging & granular manifest management.



CAREER ROADMAP & MARKET INSIGHTS

Target Roles, Job Market & Salaries



TARGET JOB POSITIONS

- ✓ Ingénieur Plateforme DevOps (Platform Engineer)
- ✓ Ingénieur SRE (Site Reliability Engineer)

- ✓ Administrateur / Architecte OpenShift
- ✓ Consultant Cloud Native & GitOps

MARKET SALARY BENCHMARKS

Sources: Hays IT · Michael Page · Robert Half

JUNIOR / RECONVERSION

45k€ – 55k€

Starting annual gross salary

CONFIRMED (3–5 YRS)

60k€ – 85k€

High recruiter demand

FREELANCE DAILY RATE

550€ – 900€

Average daily rate

EMPLOYER PARTNERS & HIRING NETWORK



devoteam

European leader in digital transformation and cloud consulting, hiring top certified platform engineers.

STARTX

Part of Devoteam

Over 20 years of premier expertise on the Red Hat, OpenShift and Kubernetes ecosystem in Europe.



PERFORMANCE-BASED EXAMS & BOOTCAMP

Red Hat Certifications & Intensive Bootcamp



Red Hat certifications are 100% hands-on performance-based evaluations on real live clusters. Our 6-day intensive bootcamp ensures complete readiness.

EXAMEN EX280

Hands-on · 3h

Red Hat Certified OpenShift Administrator

Validates managing, securing, and operating enterprise OpenShift clusters.

EXAMEN EX288

Hands-on · 3h

Red Hat Certified Specialist in OpenShift App Dev

Validates containerizing apps, Tekton CI/CD pipelines, and GitOps deployments.

+15% à +25% Average Salary Premium for Certified Engineers**Source: Red Hat Survey →**

According to the *Global Knowledge IT Skills & Salary Report*, Red Hat certified engineers earn on average 15% to 25% higher salaries and advance twice as fast into lead and architect roles.

Timed Drills & Expert Coaching

5 days of timed mock evaluations with in-depth coaching by certified Red Hat instructors.

Vouchers & Free Retakes Included

Every official exam voucher includes a free retake attempt. Secure remote 24/7 delivery.



PRODUCTION SIMULATION • 15 DAYS (105H)

Industrial Capstone & Jury Defense

During the final 15 days, students collaborate in small engineering teams (2–3 members) on architecting, deploying, and operating a production-grade enterprise platform.

SPRINT 1 (J1–J4)

Core & Topology

Multi-node setup, topology & RBAC.

SPRINT 2 (J5–J8)

GitOps & CI/CD

Tekton pipelines & declarative ArgoCD.

SPRINT 3 (J9–J12)

Workloads

KubeVirt VMs & ACS policies.

SPRINT 4 (J13–J15)

Runbook & Jury

Production runbook & oral defense.



45-min Defense before CTO & Tech Directors Jury

Live architecture presentation, demonstration on real clusters, disaster recovery drill, and technical Q&A with enterprise leaders.

OFFICIAL JURY





2027 Tuition, Funding & Admissions

Certified career tracks eligible for comprehensive corporate and public funding support.

2027 TUITION

€7,490 incl. VAT

(20% VAT included)

Eligible funding: OPCO direct settlement (Atlas, Akto...), France Travail POEC, AIF, corporate training plans, phased self-funding.

ACCESSIBILITY & QUALITY

100% accessible to individuals with disabilities, featuring tailored workstation and exam accommodations.

Disability Officer Contact: care@apertascientia.io

4-STEP ADMISSION PROCESS

01. Candidature

Official online form.

02. Entretien

30-min meeting.

03. Financement

Agreement & OPCO file.

04. Intégration

RHLS & Discord setup.

CONTACT US & OFFICIAL NETWORKS

APERTA SCIENTIA



Phone

+33185 39 02 26



Email

contact@apertascientia.io



LinkedIn

[Aperta Scientia](#)



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[@ApertaScientia](#)



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