



3-MONTH EXCELLENCE CURRICULUM

2027 COHORT

AS300 — AI Platform Engineer

Intensive 3-month curriculum to master Red Hat OpenShift AI (RHOAI), LLM/ML model deployment, MLOps/LLMOps pipelines, and GenAI applications in production.



DURATION

3 months

57 days (399 hours)

CERTIFICATIONS

EX267 AI/ML

Exams + Retakes

PEDAGOGY MODEL

75% / 25%

Red Hat + Capstone

FORMAT

100% Live Remote

Sync + Labs 24/7

TARGET PROFILES & CAREER OPPORTUNITIES

Cloud Engineers, Senior DevOps, Backend Developers, and Architects mastering Enterprise AI Platforms and MLOps in production.

2027 TUITION

€7,490 incl. VAT

€6,241.67 excl. 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

Industrializing AI models requires robust, scalable, and sovereign infrastructure. Enterprises no longer just need data scientists; they urgently require engineers capable of deploying, securing, and operating GPU clusters, low-latency LLM serving pipelines (vLLM, KServe), and end-to-end MLOps platforms.

**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 →](#)



3–Month Pedagogical Curriculum (57 Days)

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

AI & MLOps

Red Hat OpenShift AI (AI267), LLM Serving, InstructLab.



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	Rootless containerization, Podman, Buildah
D0180	OpenShift I: Containers & Kubernetes	5d / 35h	Kubernetes & OpenShift Platform Fundamentals
D0280	OpenShift Administration II	5d / 35h	Production cluster administration, security, RBAC
D0380	OpenShift Administration III: Scaling	5d / 35h	GitOps with ArgoCD, scaling and observability
AI267	Red Hat OpenShift AI (RHOAI) & MLOps	5d / 35h	Model Serving, Data Science pipelines, Jupyter
AI-LAB	Distributed LLM Serving (vLLM, KServe, Triton)	3d / 21h	High-performance serving & GPU orchestration
AI-FT	Sovereign Fine-Tuning (InstructLab & Granite)	3d / 21h	Model alignment and Enterprise RAG
B00T	Red Hat EX267 AI/ML Certification Bootcamp	5d / 35h	Intensive exam drills & official certification
PR0J	Sovereign AI Capstone Project & Jury Defense	15d / 105h	Full AI platform deployed on production GPUs



ARCHITECTURE, GITOPS & SPECIALIZATION

Enterprise AI Platforms & MLOps



An in-depth focus on the four key pillars of enterprise sovereign AI: Red Hat OpenShift AI (AI267), distributed LLM serving (vLLM/KServe), InstructLab fine-tuning, and enterprise RAG.

AI267 — Red Hat OpenShift AI & MLOps Platform (5 Days / 35h)

EX267 Prep

Deploying and managing interactive data science environments and reproducible ML pipelines.

- ✓ Jupyter, PyTorch, and Ray workbenches on OpenShift
- ✓ Reproducible MLOps pipelines with KubeFlow & Elyra
- ✓ Model registry & experiment tracking
- ✓ Dynamic GPU allocation & resource scheduling

AI-LAB — Distributed LLM Inference (vLLM & KServe) (4 Days / 28h)

High-Throughput

High-throughput serving of open foundation LLMs (Granite, Mistral, LLaMA).

- ✓ vLLM engine & PagedAttention memory optimization
- ✓ Serverless KServe & ModelMesh runtimes
- ✓ GPU slicing & multi-tenancy (MIG / time-slicing)
- ✓ Optimizing TTFT latency & token throughput

AI-FT — InstructLab Alignment & Fine-Tuning (4 Days / 28h)

AI Sovereignty

Incremental model training and domain specialization without data leakage.

- ✓ Synthetic data generation with InstructLab
- ✓ Efficient LoRA / QLoRA fine-tuning on GPU clusters
- ✓ Domain skill & knowledge model alignment
- ✓ Model evaluation & benchmark verification

AI-RAG — Enterprise RAG & TrustyAI Governance (4 Days / 28h)

Guardrails & Prod

Retrieval-Augmented Generation & production guardrails for enterprise AI.

- ✓ Milvus vector database & hybrid semantic search
- ✓ Enterprise LangChain & LlamaIndex pipelines
- ✓ Drift detection & explainability with TrustyAI
- ✓ Security guardrails, GDPR & EU AI Act compliance



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 AI

Red Hat OpenShift AI v2.16

AI267

Jupyter/Ray workbenches & KubeFlow.



kubernetes

Kubernetes & GPU DRA v1.31

D0280 • AI267

Dynamic DRA allocation & MIG GPU slicing.



InstructLab

InstructLab & RHEL AI v0.20+

AI-FT • AI267

Private sovereign LoRA GPU fine-tuning.



vLLM Serving Engine v0.6+

AI-LAB • AI267

PagedAttention & ultra-low latency.



KServe

KServe & ModelMesh v0.14

AI267

Serverless serving & dynamic auto-scaling.



IBM Granite Open Models v3.0

AI-FT • AI-LAB

Open sovereign foundation LLMs code & logic.



PyTorch Framework v2.5

AI267

Tensor compute & distributed CUDA GPU.



Ray & KubeRay Cluster v2.35

AI267

Distributed training & AI scaling.



jupyter

JupyterLab Workbenches v4.2

AI267

Interactive workbenches with GPU hooks.



TrustyAI & Guardrails v1.4

AI-RAG

Model explainability, drift & AI Act.



Milvus

Milvus Vector Database v2.4

AI-RAG

Vector database & hybrid semantic search.



LangChain

LangChain & LlamaIndex v0.3

AI-RAG

Autonomous agents & enterprise RAG.



CAREER ROADMAP & MARKET INSIGHTS

Target Roles, Job Market & Salaries



TARGET JOB POSITIONS

- ✓ AI Platform Engineer
- ✓ AI & GPU Infrastructure Architect
- ✓ MLOps / LLMops Engineer
- ✓ AI Systems & DataOps Engineer

MARKET SALARY BENCHMARKS

Sources: Hays IT · Michael Page · Robert Half

JUNIOR / CAREER TRANSITION

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.

EXAM EX267

Hands-on · 3h

Red Hat Certified Specialist in OpenShift AI & ML

Validates deploying enterprise RHOAI, GPU orchestration, LLM serving, and MLOps.

TITRE RNCP NIVEAU 7

EQF 7

AI / DevOps Platform Engineer (Master level / EQF 7)

Formal qualification registered with France Compétences (EQF 7).

+15% to +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

vLLM serving, KServe & RAG.

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

€6,241.67 excl. 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. Application

Official online application.

02. Interview

30-min admissions interview.

03. Funding

Training agreement & funding file.

04. Onboarding

RHLS activation & cohort onboarding.

CONTACT US & OFFICIAL NETWORKS

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