ORACLE
Academy

Oracle Academy

Advancing technology education globally

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Program Manager Benelux

Leading transformation through education

Oracle's global philanthropic educational program

Advances technology education, skills, innovation, and diversity and inclusion

Program open to educational institutions and educators around the globe and their students

Free teaching and learning resources—including curriculum, cloud, software, and professional development

Helps educators prepare students with knowledge, hands-on practice, and career-relevant skills

Engages **14k+** educational institutions and educators in **130+** countries

Enables **41k+** faculty to prepare their learners for careers using current technologies

Oracle Academy

🇳🇱 Members

1. Alfa College
2. Associate Degree Academy
3. Avans Academie Associate degrees
4. Bernoulli Institute for Mathematics, Computer Science and Artificial Intelligence, University of Groningen
5. Christelijke Hogeschool Ede
6. Codam Coding College
7. Delft University of Technology
8. Deltion College
9. Driestar College
10. Fontys Hogescholen
11. Gilde Opleidingen
12. Graafschap College
13. Hogeschool Rotterdam
14. HR - Rotterdam Academy
15. Hanzehogeschool Groningen
16. Hogeschool Windesheim
17. Hogeschool van Amsterdam
18. Hogeschool Utrecht
19. Ichthus College
20. Jac. P. Thijsse College
21. Jan van Brabant
22. Koning Willem II College
23. Landstede
24. Leiden Law School
25. Lyceum Schravenlant
26. Maaslandcollege
27. Montessoricollege Nijmegen
28. Noorderpoort
29. Ostrea Lyceum
30. Pieter Groen College
31. Prof. Dr. Leo Kannercollege
32. ROC Amsterdam
33. ROC Midden Nederland
34. ROC Mondriaan
35. ROC NOVA College
36. ROC Nijmegen
37. ROC Zadkine
38. ROC de Leijgaaf
39. RSG Pantarijn
40. ROC Friese Poort
41. Katholieke Scholengemeenschap Etten-Leur en omgeving
42. Stichting Praktijkleren
43. R.K. Scholengemeenschap Sancta Maria
44. Techniek College Rotterdam
45. The British School in The Netherlands
46. Trinitas gymnasium
47. Universiteit van Amsterdam
48. University of Twente
49. Universiteit Utrecht
50. Zuid Academy - SouthernHill
51. Ds. Pierson College 's-Hertogenbosch
52. Gemeentelijk Gymnasium Hilversum

Oracle Academy Free Resources

Oracle Academy Primavera	Oracle Academy Cloud Program	Oracle APEX	Oracle Academy NetSuite

Oracle Academy Academic Curriculum

Project Management Curriculum

Primavera Professional Project Management Fundamentals

Cloud Curriculum

Cloud Infrastructure Foundations I and II

Java Curriculum

Java Fundamentals

Java Foundations

Java Programming

Artificial Intelligence with Machine Learning in Java

Database Curriculum

Database Foundations

Database Design and Programming with SQL

Programming with PL/SQL

Oracle Application Express (APEX) Development Foundations

Oracle Academy Education Bytes

Career Learning Resources

Engineering and Development Roles:

Database Administrators

Software Developers

Cloud Infrastructure Engineers

System Administrators

Project Managers

Sales Roles:

Business Development Consultants

Sales Managers

Corporate Function Roles:

Human Resources

Finance

Oracle Professional Certification Pathways

What Oracle Academy Offers K-12/Secondary Schools

Recommended Workshops and Curriculum

- Getting Started with Java Using Alice
- Creating Java Programs with Greenfoot
- Programming the Finch Robot in Greenfoot or Java
- Java Puzzle Ball
- Solve It with SQL
- Oracle Academy Java for Computer Science A

- Java Fundamentals
- Java Foundations
- Java Programming
- Database Foundations
- Database Design
- Database Programming with SQL

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Getting started: Workshops

Make first experiences with technology fun and engaging, while leveraging best academic curriculum practices.

Use Oracle Academy workshops to:

- Introduce computing concepts to learners in a fun and engaging way

- Incorporate technology and computer science into teaching other academic disciplines

- Offer extra-curricular programs, events and experiences

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Workshops

Java workshops introduce learners to object-oriented programming using game-based learning methodology, drag and drop interfaces to create 3D animations and 2D games, and interactions with the Finch Robot.

Database workshop introduces database to beginners by challenging them to play the role of a superhero and solve a series of crimes using a cloud-based database development environment.

STEM science workshop presents Einstein's special theory of relativity and is centered on a series of interactive JavaScript simulations through which students can manipulate a flying saucer to explore.

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Java pathway

Getting Started with Java Using Alice (8 Hours) → Java Puzzle Ball (12 Hours) → Creating Java Programs with Greenfoot (16 Hours) → Programming the Finch Robot in Greenfoot (4 Hours) → Programming the Finch Robot in Java (4 Hours)

Full Curriculum Starting Point

Java Fundamentals (90 Hours) → Java Foundations (90 Hours) → Oracle Foundations Associate, Java, Professional Certification ← Oracle Academy Java for AP Computer Science A (180 Hours)

Java Programming (90 Hours) → Artificial Intelligence with Machine Learning in Java (40 Hours)

Legend:
- Workshop
- Full Curriculum
- Certification Exam
- → Oracle Academy Pathway
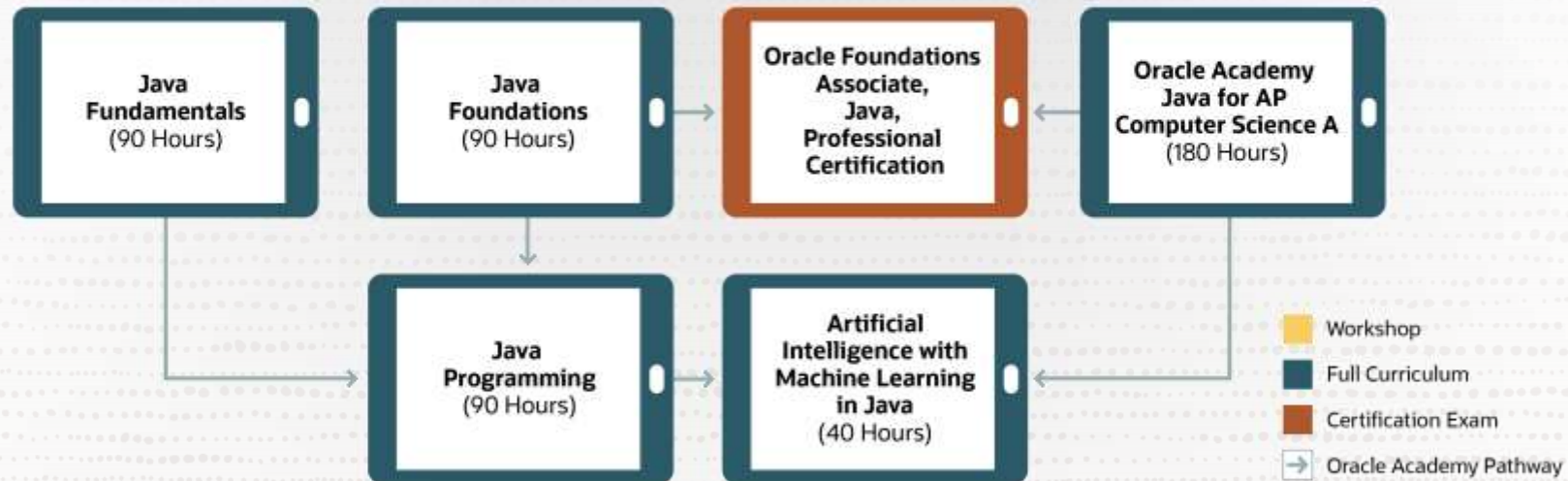
Java curriculum

Java Fundamentals

Engages participants with little or no programming experience. Participants are introduced to object-oriented concepts, terminology, and syntax using hands-on, engaging activities on easy to use Java platforms to scaffold the knowledge to create basic Java programs. 90 hours

Java Foundations

Engages participants with little programming experience in Java programming using a standard Java editor. Participants are introduced to programming concepts, object-oriented concepts, terminology, and syntax, and the steps required to create basic Java programs. 90 hours

Java Programming

Builds on the skills gained in Java Fundamentals or Java Foundations to help advance Java programming skills. Participants design object-oriented applications with Java and create Java programs using hands-on, engaging activities. 90 hours

Artificial Intelligence with Machine Learning in Java

Building on the skills gained in Java Foundations and Java Programming, students learn and practice machine learning concepts within artificial intelligence. They are introduced to the terminology, syntax, and steps required to create a machine learning solution in Java using hands-on, engaging activities. 40 hours

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NEW Java curriculum for Advanced Placement

Oracle Academy Java for AP Computer Science A

This new curriculum prepares high school/secondary school students for the College Board AP Computer Science A exam as well as the Oracle Java Certified Foundations exam (1Z0-811). This curriculum also may benefit educators and students who wish to extend their Java knowledge beyond Oracle Academy Java Foundations.

Through hands-on, engaging activities, it introduces learners to object-oriented programming concepts, terminology, syntax, and steps to create basic Java programs, and provides them with the opportunity to design applications with Java.

This course is not required, certified or endorsed by the College Board and completion of this course does not provide any AP credit or credential.

180 hours | 60 CPD credit hours for educators

Free teaching and learning resources

ORACLE Academy

Database pathway
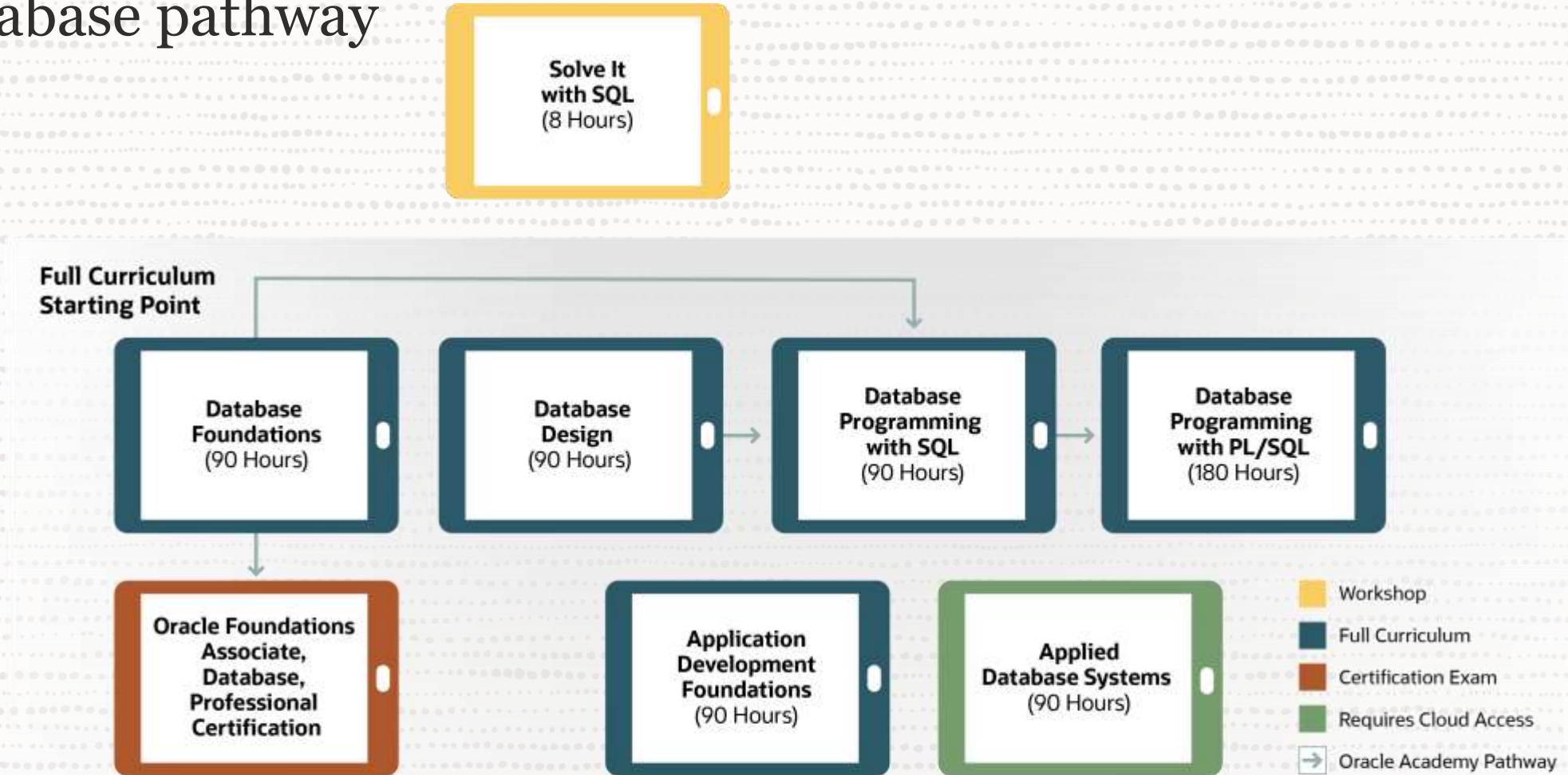
Free teaching and learning resources

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Database curriculum

Students are able to learn and get hands-on practice through Oracle APEX and the Oracle Academy Cloud Program, which provides access to Oracle Cloud Free Tier.

Database Foundations

Students with little database experience learn database design techniques, design databases using a modeling tool, and are introduced to SQL to implement and query databases using hands-on practice. 90 hours

Database Design

Students learn to analyze complex business scenarios and create a data model (a conceptual representation of an organization's information), culminating with a project that challenges them to design a database solution for a business or organization. 90 hours

Database Programming with SQL

Students implement database designs by creating physical databases using SQL. The curriculum introduces basic SQL syntax and the rules for constructing valid SQL statements. 90 hours

Database Programming with PL/SQL

Students are introduced to PL/SQL and explore how it extends and automates SQL in administering the Oracle database, and create projects to design, implement, and demonstrate a database solution for a business. 180 hours

Database curriculum

Applied Database Systems

Students learn skills required to build modern cloud database solutions using Oracle Database through hands-on, engaging activities. **90 hours**

Application Development Foundations

Students learn techniques and tools required to develop database-driven web applications as well as how to design, develop, and deploy database-driven web applications using Oracle APEX. **90 hours**

Free teaching and learning resources
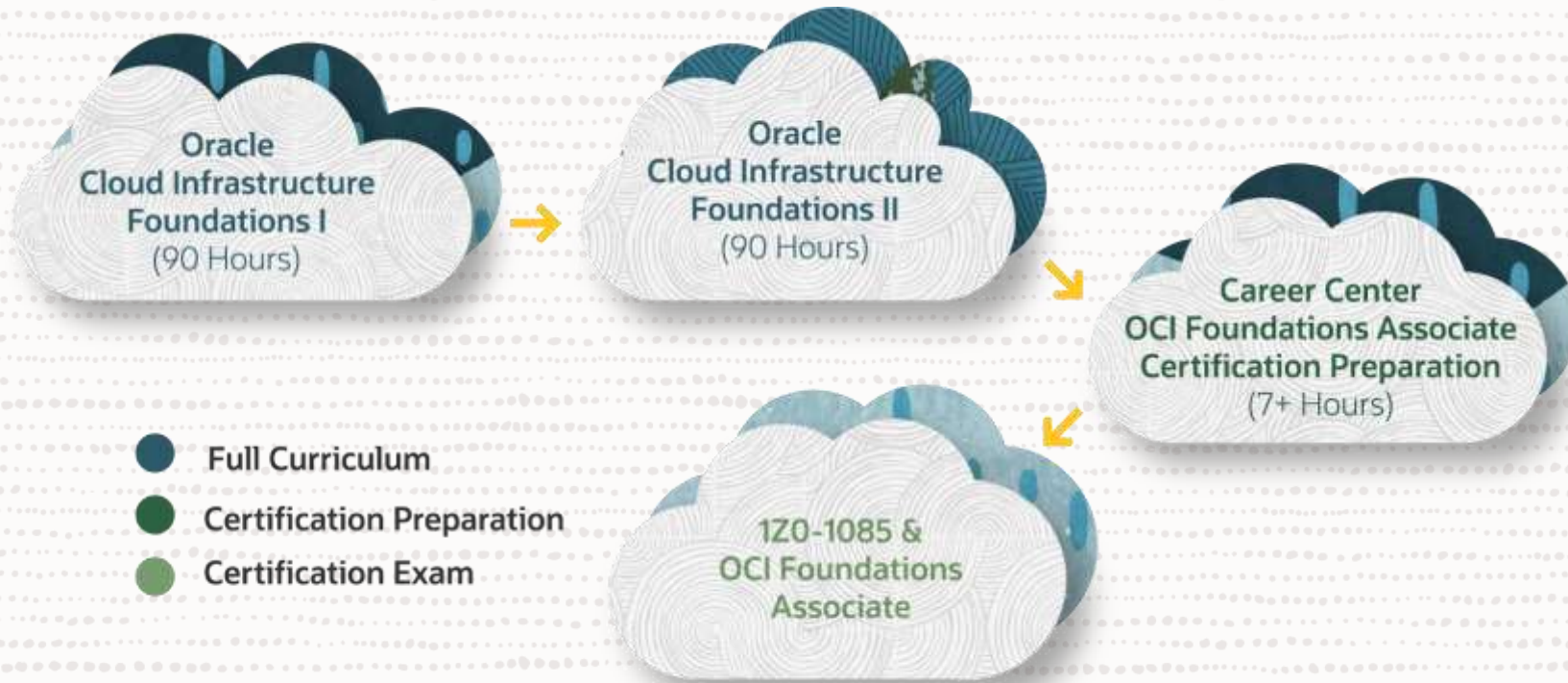
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Cloud pathway

Oracle Cloud Infrastructure Foundations I (90 Hours) → Oracle Cloud Infrastructure Foundations II (90 Hours) → Career Center OCI Foundations Associate Certification Preparation (7+ Hours) → 1Z0-1085 & OCI Foundations Associate

- Full Curriculum
- Certification Preparation
- Certification Exam

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Cloud curriculum

Cloud Infrastructure Foundations I and II
Oracle Cloud Infrastructure (OCI) leads cloud computing with a deep and broad platform of cloud services that enables customers to build and run a wide range of applications in a scalable, secure, highly available and high-performance environment.

Students can learn about cloud from the cloud leader. This curriculum helps students build foundational knowledge of cloud computing with a focus on OCI concepts and terminology, and then builds on that knowledge with hands-on practice in the cloud.

Free teaching and learning resources

Cloud Infrastructure Foundations I and II introduces students to basic OCI concepts and terminology:
- Core Infrastructure
- Database
- Solutions, Platform and Edge
- Governance and Administration

Throughout the course, learners gain core knowledge of cloud, how it works with databases, and security, administration, monitoring, and management.

To gain deeper hands-on skills, we recommend that educators provide students with access to the cloud through the free Oracle Academy Cloud Program. Simply sign up students of the age of legal majority in their country of residence.

Each 90 hours | 30 CPD credit hours for educators

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Oracle Academy Education Bytes

- Korte, flexibele leermodules in **programmeren**, **database**, **data science**, **big data** en nog veel meer onderwerpen die nieuwe concepten aanleren en bestaande kennis en vaardigheden, probleemoplossing, creativiteit en leerbehoud verbeteren.

- Kan op zichzelf worden gebruikt of als aanvulling op het Oracle Academy curriculum.

- Biedt inhoud in drie formaten: hands-on labs, projecten en uitdagingen, en video's en presentaties.

Learner

Hands-On Labs

Projects and Challenges

Videos and Presentations

Career Learning Resources

Curriculum*

| Java | Database | Data Science |
| Cloud | Project Management | Business Management |
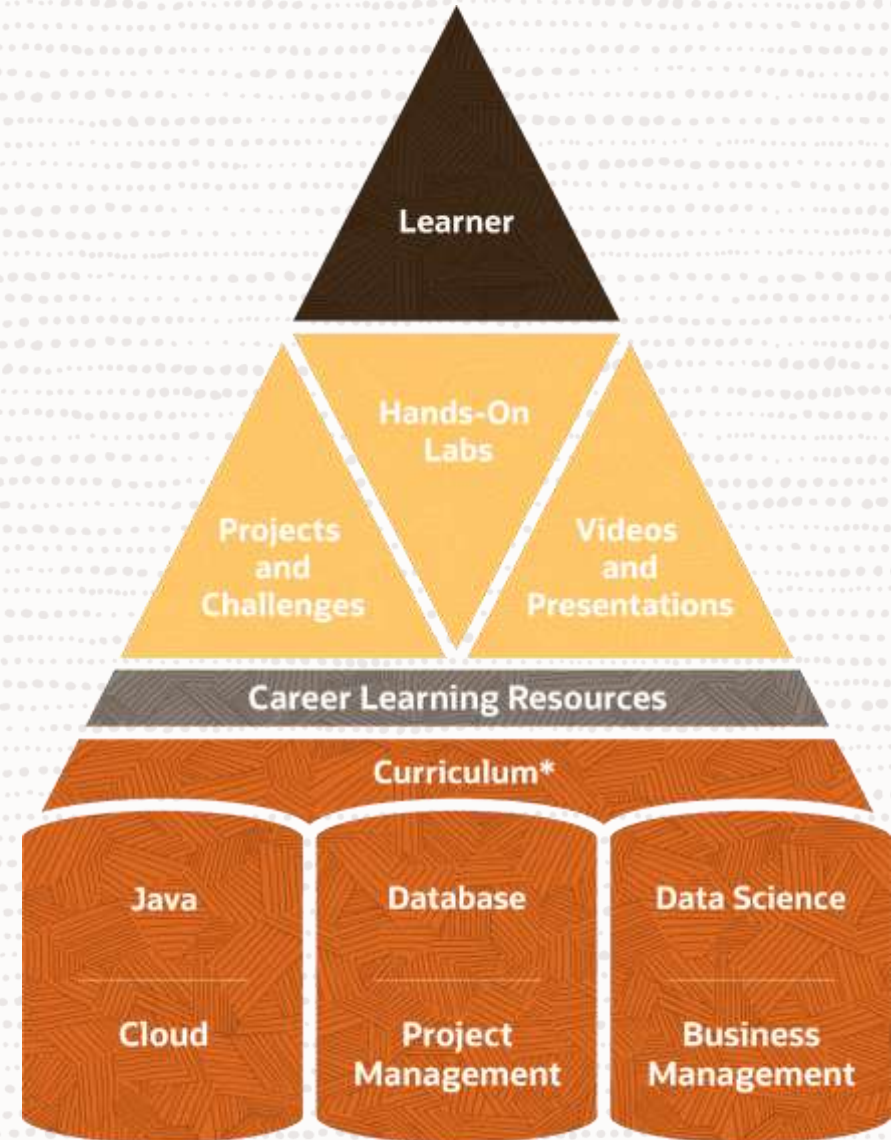
*Curriculum is available to Oracle Academy Institutional members only.

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Oracle Academy Education Bytes

Hands-On Labs—Step-by-step instruction-based labs designed to be facilitated by an educator or self-studied by an individual learner. Some may require prior knowledge or completion of curriculum.

Projects and Challenges—Stand-alone projects that can be used independently of, during, or at the end of an Oracle Academy workshop or course.

Videos and Presentations—These can be used within the classroom or viewed by individual learners at their own pace to learn more about computer science topics.

Explore Education Bytes at **academy.oracle.com/curriculum**.

Free teaching and learning resources

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Career Learning Resources

Help pave your students' pathway to success with the new Oracle Academy Career Center, offering Career Learning Resources with free career-based learning content modules through Oracle University, Oracle Learning Library, and Oracle developer teams.

Visit the new Career Center in the Member Hub for free career-based courses and more

Free teaching and learning resources

Career Center

Help learners explore and make connections between Oracle Academy core academic curriculum and career pathways that include professional training—with the option to explore Oracle professional certifications.

Engineering and Development Roles

- Database Administrators
- Software Developers
- Cloud Infrastructure Engineers
- System Administrators
- Project Managers

Corporate Function Roles

- Human Resources
- Finance

Sales Roles

- Business Development Consultants
- Sales Managers

Simply log in to your Member Hub to access at **academy.oracle.com**.

Oracle Academy Cloud Program

Educators and students teach, learn, explore, build, develop, and practice in the cloud — free of charge.

Free teaching and learning resources

Oracle Academy Cloud Program

Access to Free Tier and Oracle APEX

- Includes powerful Autonomous Database and Oracle Cloud Infrastructure, available to educators and their students for an unlimited time

- Teach and learn in the cloud with one-time classroom setup

- Comprehensive curriculum with startup guides for ADB: SQL, PL/SQL, SQL Builder, plus APEX, Compute VM, Oracle Linux, and Java

Easy signup

- Intuitive signup process and unified console for easy navigation

- Easily provision student accounts, and classes are up and running in the cloud for anytime, anywhere access without the need to download, install, or maintain software, saving hours of time year over year

- IaaS, PaaS & SaaS access via one user interface

Free credits

- 365-day USD$300 credit

- Learn, explore and build for free in services such as Big Data, NoSQL, Kubernetes, Digital Assistant, Java, Content and Experience and many more

Explore the cloud at academy.oracle.com/cloud

Free teaching and learning resources

Oracle Academy Cloud Program

Autonomous Database

*2 x Databases
20 GB each*

Compute VM

*2 x AMD VMs
1 GB Memory each
4 x Ampere VM's
Up to 24GB
Memory*

Storage

*2 x 100 GB Block
10 GB Object
10 GB Archive*
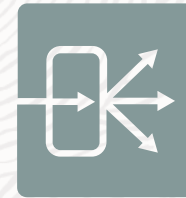
Networking/ Load Balancing

*10 Mbps LB
10 TB Outbound
Data Transfer*

Monitoring / Notifications

*500M Metrics Ingestion
1B Metrics Retrieval
1M Notifications
1K Emails*

Explore the cloud at **academy.oracle.com/cloud**

Free teaching and learning resources

Oracle Academy Cloud Program

- **Always Free: Two Databases per Cloud Tenancy**
  - Each Database gets 1 OCPU and 20 GB storage
- **Free Tools** for Application Development
  - APEX for low-code, web-based app development
  - SQL Developer Web for database development
  - SQL Notebooks for Machine Learning
  - Automatic REST for easy access and publishing of DB data
  - Drivers for all popular programming languages

Oracle Autonomous Database

Explore the cloud at **academy.oracle.com/cloud**

Free teaching and learning resources

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Oracle Academy Cloud Program

Oracle Compute VM

- **Always Free: Two AMD Compute VMs per Cloud Tenancy**
  - Each VM gets 1 GB memory and 50 GB block storage
- **Always Free: Four Ampere A1 cores per Cloud Tenancy**
  - Create any combination of VMs using 4 cores and 24GB total
- **Free** for Application Development
  - Create a Linux VM (Oracle Linux, Ubuntu or CentOS)
  - Develop in multiple languages (Java, Python, Ruby)
  - Develop Web Services (Node.JS, APACHE)

Explore the cloud at **academy.oracle.com/cloud**

Oracle Academy Member Hub

Educators can access all the resources they need in one state-of-the-art member-focused teaching and learning management system platform.

Oracle Academy Member Hub

All teaching and learning content in one location, including:

- Curriculum—including quizzes, exams, and assessment tools

- Workshops

- Oracle Academy Education Bytes

- Oracle Academy Cloud Program, Oracle APEX, Primavera, and more

- Customizable channels and student administration

- Oracle technology and applications software and open source software and environments

- Access to all member benefits and resources

- Continuing professional development and learning paths

Free curriculum and teaching and learning resources

Accessing the Member Hub is easy

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Free curriculum and teaching and learning resources

All your teaching and learning resources in one place

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Free curriculum and teaching and learning resources

Browse the Curriculum catalog

Free curriculum and teaching and learning resources

Create accounts and deliver coursework to your learners

Access all your free resources and benefits
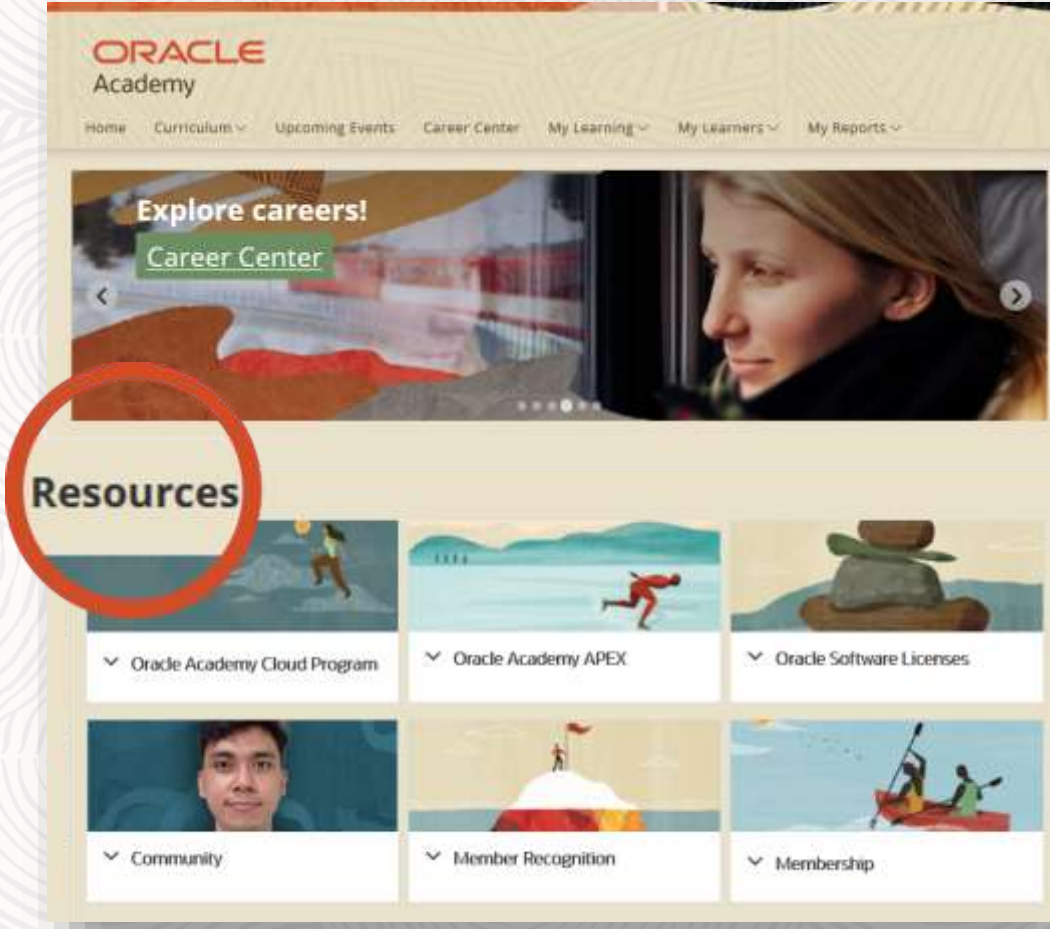
Free curriculum and teaching and learning resources

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Easily access help for any questions

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Earn credits at your pace and keep current with technology with instructor-led self-study courses

- In our virtual CPD education sessions, an instructor helps you get started and is available for coaching as needed.

- Learning to earn credits is available at any time.

- CPD hours are **based on the curriculum learning content** in accordance with guidelines from the International Association for Continuing Education and Training.
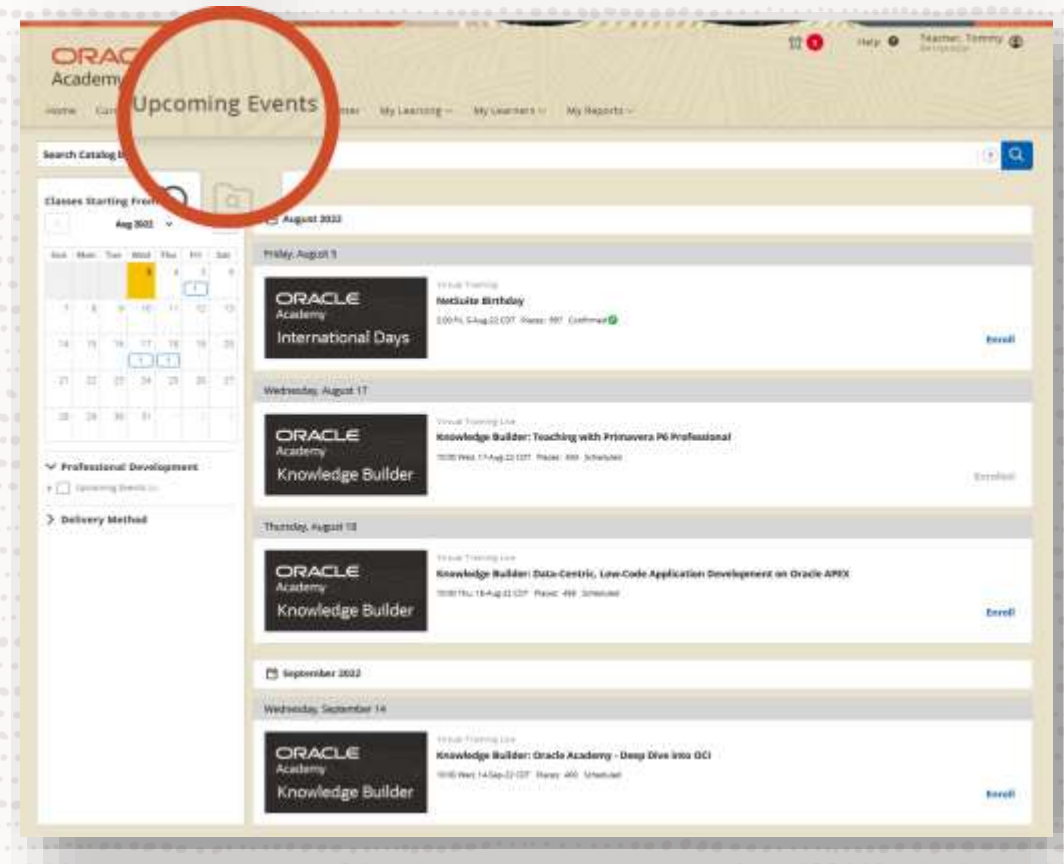
Free continuing professional development

Curriculum content hours

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Recommended total course hours includes time for instruction, coursework, practice, assessments, and project development and completion.

Workshop or Course	Total Course Hours	CPD Hours
Getting Started With Java Using Alice	8	8
Creating Java Programs with Greenfoot	16	16
Programming the Finch Robot in Greenfoot or Java	8 each	8 each
Solve It with SQL	16	16
Java Fundamentals | Java Foundations | Java Programming	90 each	30 each
Java for AP Computer Science A	180	60
Artificial Intelligence with Machine Learning in Java	40	16
Applied Database Systems	90	30
Database Design & Programming with SQL	180	60
Programming with PL/SQL	180	60
Application Development Foundations	90	30
OCI Foundations I & II	90 each	30 each
Primavera Professional Project Management Fundamentals	90	30