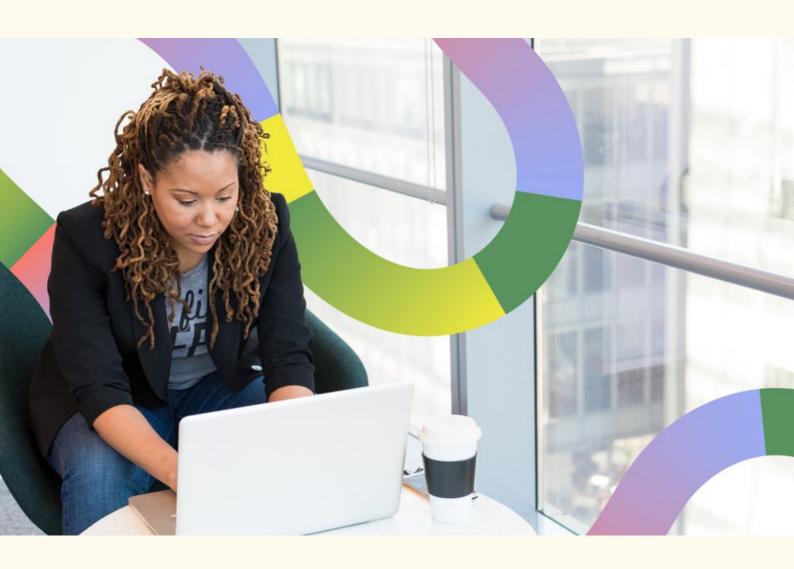
DPENCLASSROOMS



Cybersecurity

Safeguards digital systems and data by identifying vulnerabilities, monitoring for threats, and implementing protective measures.



Real-world Projects



PrerequisitesHigh school diploma or equivalent



Apprenticeship Training
Duration
400 hours
Bootcamp Training
Duration
100 hours



Assigned Mentor



Certificate of Completion of Apprenticeship

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OpenClassrooms pedagogy and experience: the keys to your success



100% Online

Online training is accessible from anywhere, anytime.



Learn by doing

Apprentices apply their knowledge into practice by using their new skills on real-world projects.



A mentor to support your apprentice

Apprentices benefit from the support and advice of an expert in the field throughout their training to help them progress.

Gain the skills you need for future-proof tech jobs with an earn and learn program

1

Salary and training financed by a forward-thinking company, what can be better?

Earn and learn means zero cost and debt to the apprentice because they receive a salary paid by your business. You get an apprentice trained with the most up-to-date tech training at a lower cost than a traditional hire.

2

A flexible apprenticeship program: practical for you and your business.

Your contract can start at any time of the year. The program is flexible allowing for 3 or 4 days of on-the-job training with online training days that can be adapted.

3

Training tailored to the practical needs of the chosen profession.

This program is registered with the U.S. Department of Labor, Office of Apprenticeship.

4

Online, but always supported.

Because training is never easy, the apprentice is supported by a mentor, who helps them progress. Our team of educational advisers is also there to support you at every stage of your journey.

Pursue a career as a Cybersecurity Analyst

Safeguards digital systems and data successfully by identifying vulnerabilities, monitoring for threats, and implementing protective measures.





Intended for

Individuals interested in pursuing a career in cybersecurity or IT professionals seeking to specialize in one of three core areas: offensive security, defensive security, or cybersecurity governance.



Duration

Full-time
12 month apprenticeship



Credential

Certificate of Completion of Apprenticeship

Granted by the Office of Apprenticeship or the State Apprenticeship Agency.

Target skills:

- Raise employees' awareness and commitment to cybersecurity
- Conduct a web penetration test and share its results and recommendations
- · Secure critical assets and infrastructure
- Automate recurrent activities by writing and running scripts in Python
- Investigate cybersecurity incidents and contain attacks
- · Assess the compliance and risk level of a supplier

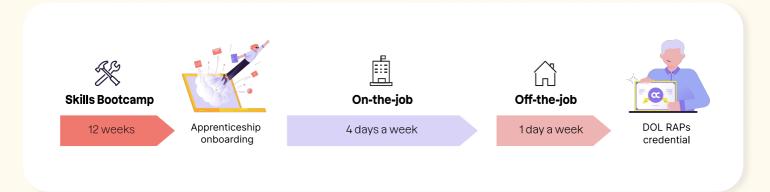
PREREQUISITES FOR APPRENTICESHIP ADMISSION

- High school diploma or equivalent.
- Must be over 18 years of age or older and have the right to work in the U.S.
- IT proficiency can be evidenced by having an Associate's level degree or equivalent in IT or possessing at least 2 years of professional experience in IT.
- Cyber-awareness can be developed through our 3-month Cybersecurity core mastery bootcamp. Alternatively, holding introductory certifications (i.e. ISC2 or ISACA CFC) will equip you with the necessary foundational knowledge for apprenticeship success.

Tools, technologies and methodologies Python IS mapping scripting CMDB Security framework Phishing/ malware NIST Vulnerability SIEM scans **vm**ware WIRESHARK Web pentesting Proxy / firewalls

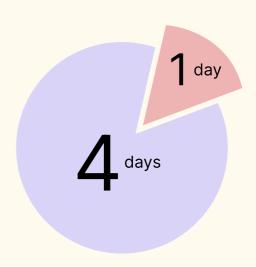
OpenClassrooms apprenticeship programs: a win/win solution

Diversify and create a sustainable talent pipeline to fill your digital skills gaps. Start apprentices in an optional 3-month pre-apprenticeship Skills Bootcamp to ensure they are prepared with the necessary skills needed for their 12-month apprenticeship.



Learn at the right pace

For four days per week the apprentice will be working on-the-job at your company and one day per week taking online project-based training with OpenClassrooms. You will both be supported by OpenClassrooms Success teams every step of the way.



In your company. On-the-job

- · Onboard apprentices whenever you want
- The apprentice works on company assignments
- You provide guidance to the apprentice

At OpenClassrooms. Off-the-job

- The apprentice learns the core skills required for the job
- Project-based learning that is 100% online
- The apprentice gets one-on-one sessions with a mentor

Skills Bottcamp

3 month pre-apprenticeship training

Pre-apprenticeship programs benefit both apprentices and employers by ensuring apprentices are prepared for on-the-job training from day one. The bootcamp consists of 3 - 4 projects, focused on core skills.

Skills Bootcamp

PROJECT 1

~10h

Set Up your Cybersecurity Watch

Set up your cybersecurity watch to regularly keep up to date with latest threats and regulatory news in the field and identify key info to share with your team.

TARGET SKILLS

- Contribute to a cybersecurity watch and threat activities
- · Write a report on new threats

EXPECTED DELIVERABLES

· Cyberwatch report

RECOMMENDED COURSES

- Course #1 Discover the Universe of Cybersecurity
- Course #2 Discover Digital Marketing

PROJECT 2

~ 20h

Manage Supply Chain Risk

Assess the risks and compliance level of a potential supplier and propose a remediation plan. Update internal policy to improve the capacity to identify and manage vendor-related risks more effectively in the future.

TARGET SKILLS

- Perform a risk assessment following a standard methodology
- Assess supply chain risk process of the company
- Contribute to company process documentation

EXPECTED DELIVERABLES

- Risk assessment
- Compliance report
- Improved 3rd party supplier security policies, according to ISO 27001

TOOLS, TECHNOLOGIES, AND METHODOLOGIES

Risk assessment

ISO 27001

CVSS Score

RECOMMENDED COURSES

• Course #1 - Discover the World of Cybersecurity

Skills Bootcamp

PROJECT 3

~30h

Perform a Vulnerability Scan for your Company's Information System

Perform a vulnerability scan against critical assets of your company, characterize identified vulnerabilities and write a report sharing your analysis and prioritized recommendations to your management.

TARGET SKILLS

- Assess information system vulnerabilities through a vulnerability scan
- Write an analysis report of IS vulnerabilties

EXPECTED DELIVERABLES

- Vulnerability Assessment Report
- · Presentation of results

TOOLS, TECHNOLOGIES, AND METHODOLOGIES





PROJECT 4

~ 40h

Contribute to Digital Investigations and Incident Response

Assist in investigating a cyber attack at your company, where two employees receive fraudulent emails seeking passwords and including malicious files. Qualify suspicious activities, identify containment measures, and write the incident report.

TARGET SKILLS

- Respond to a phishing attack
- Write an incident report with recommendations for the company

EXPECTED DELIVERABLES

• Incident response report

TOOLS, TECHNOLOGIES, AND METHODOLOGIES

AbuselPDB

VIRUSTOTAL

SIEM

Sandboxes

Email header analyzer

Training Path

12 month apprenticeship program

Our apprenticeship programs combine hands-on training with 100% online learning. The apprenticeship program consists of 6 - 8 projects, focused on acquiring core skills that can be applied on-the-job.

PROJECT 1

~12h

Dive into your Cybersecurity Analyst Training

Find out what it means to be a Cybersecurity Analyst by stepping into your new role. Define your goals and determine your study schedule.

TARGET SKILLS

- Define your training framework
- · Adopt a lifelong learning mindset

EXPECTED DELIVERABLES

· Training schedule

RECOMMENDED COURSES

- Course #1 Set Yourself Up for Success in your OpenClassrooms Training
- Course #2 Discover the World of Cybersecurity

PROJECT 2

~ 50h

Raise Employees' Awareness and Commitment to Cybersecurity

Your organization's employees' cybersecurity habits have led to serious incidents in the past. Your mission: create a user charter and organize its deployment to win everyone's engagement.

TARGET SKILLS

- Communicate with policy violators to ensure future compliance
- Raise awareness within the company on cybersecurity issues
- Write a user charter supporting the global security policy

EXPECTED DELIVERABLES

- · Reflex card for employees
- Deployment plan presentation document for the management
- User charter

TOOLS, TECHNOLOGIES, AND METHODOLOGIES

Data analytics

Communication / Pedagogy

RECOMMENDED COURSES

• Course #1 - Discover the World of Cybersecurity

PROJECT 3

~20h

Let's Capture Flags - CTF Challenges

As a cybersecurity enthusiast, discover Root-Me and solve challenges in different categories in order to adopt the mindset of an attacker.

TARGET SKILLS

• Perform penetration tests on web applications

EXPECTED DELIVERABLES

- Write up of solved challenges
- List of solved challenges on Rootme (link of screenshot)

TOOLS, TECHNOLOGIES, AND METHODOLOGIES Programmation language Network security Web pentesting CTF

PROJECT 4

~ 40h

Conduct a Web Penetration Test

Assume the role of an attacker and conduct a penetration test on one of your company's web applications: preparation, actual testing, and reporting.

TARGET SKILLS

- Assess information system vulnerabilities
- Write an analysis report of IS vulnerabilities
- Perform penetration tests on information system
- Map the victim's Information System

EXPECTED DELIVERABLES

- · Penetration testing report
- Presentation slides of the results
- · Inventory of the information system

TOOLS, TECHNOLOGIES, AND METHODOLOGIES Automatic vulnerability scanning Write a report Summarize results Human-led vulnerability discovery Web pentesting

PROJECT 5

~60h

Secure Critical Assets and Infrastructure

An audit has been conducted at your company's Active Directory infrastructure. Based on the raw recommendations provided by the auditor, create an efficient and prioritized action plan.

TARGET SKILLS

- Translate audit recommendations into a comprehensive action plan
- Secure the company infrastructure

EXPECTED DELIVERABLES

- Action plan for remediations
- Presentation slides of the action plan

TOOLS, TECHNOLOGIES, AND METHODOLOGIES

Security framework Write an action plan

Prioritize actions

Write best practices

Action plan development

Summarize results

PROJECT 6

~30h

Write and Run Scripts in Python

A web hosting company supervising its public IPs wants to automate the neutralization of compromised files. Automate the cleaning of compromised files with Python.

TARGET SKILLS

- Contain a simple security incident
- Solve a security incident by following SOC procedures

EXPECTED DELIVERABLES

• Python script to block propagation

TOOLS, TECHNOLOGIES, AND METHODOLOGIES

IS mapping Phishing/ malware



vmware

RECOMMENDED COURSES

- Course #1 Learn Python Basics
- Course #2 Manage your Time Effectively

PROJECT 7

~80h

Investigate Cybersecurity Incidents and Contain Attacks

Based on observable elements collected, carry out in-depth analyses of several security incidents and identify possible containment actions.

TARGET SKILLS

- Investigate a cybersecurity incident
- Write an incident report with recommendations for the company
- Respond to an email phishing
 attack

EXPECTED DELIVERABLES

- Action plan for remediations
- Presentation with causes, consequences, and action plan for remediation

TOOLS, TECHNOLOGIES, AND METHODOLOGIES SIEM VIRUSTOTAL Logs analysis CMDB IOC search

PROJECT 8

~60h

Assess the Compliance and Risk Level of a Supplier

Reduce the risk of a supply chain attack by performing a 3rd party compliance assessment and a risk assessment on a partner contractor with whom your company has worked for a duration of one year.

TARGET SKILLS

- Assess company's compliance to NIST / ISO27001 framework
- Perform a risk assessment

EXPECTED DELIVERABLES

- 3rd party compliance assessment
- Risk assessment analysis
- Synthesis presentation of the level of compliance and the recommended action

TOOLS, TECHNOLOGIES, AND METHODOLOGIES

Risk assessment

Compliance assessment

ISO 27002

PROJECT 9

~ 50h

Keep your Exposure to Compromise Under Control

Perform a vulnerability watch and extract patches to be deployed, fixes to be applied and IOCs to be hunted. From this, develop a pragmatic action plan to maintain control over the risks of compromise.

TARGET SKILLS

- Contribute to a cybersecurity watch and threat activities
- Write scripts to find IOCs / automate blocking of IOCs
- Analyze packet capture file
- Identify IS security breaches and risk of compromise

EXPECTED DELIVERABLES

- Cyber watch report
- Script (Python) to identify / block IOCs
- Action plan

TOOLS, TECHNOLOGIES, AND METHODOLOGIES

WIRESHARK

Online watch

Scripting

MS Patch Tuesday

Vulnerability scans

Clear steps to guide you towards your future career.

Study guidance

Selecting the best option for your future is never easy, but our team is here to guide you through your training options and advise you on financing options by e-mail, telephone or via webinars.

Start date

Together we ensure that you meet the prerequisites, register, and identify apprenticeship employer options. Or if you are in the Talent Marketplace, an employer may reach out to you directly.

Your onboarding

As soon as you are matched with an employer, you take part in an onboarding webinar to familiarize yourself with our training. Learn about the program, schedule, and stay for Q&A: you will be able to start your educational journey with complete peace of mind.



Skills acquisition

No more grades: you are assessed through the acquisition of skills and the completion of professional projects, which will allow you to build a portfolio, in cooperation with your mentor, our educational team and our online resources.

Jury and certificate

Your portfolio is evaluated by a jury of experts responsible for validating the acquisition of the skills necessary to receive a Certificate of Completion of Apprenticeship.



Career

With your certificate in hand, you are ready to start working, at a company or on your own. Your career/new career can begin!

They trust us





















High-quality training

Our training and our courses are designed especially for you, by our team of recognized experts and professionals.

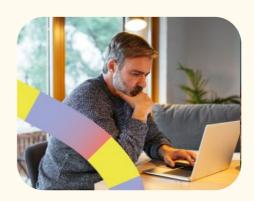


Skills sought by companies

Our job? To identify the skills and jobs most sought after by employers, so that your training has a real impact, today and tomorrow. We're here for you, all the way.

Field experts

Your courses and projects are built in collaboration with recognized professionals in their field, so that your training is as close as possible to the reality of the profession. Start off on the right foot with project-based learning.





Our production studio

We produce all training content in our own production studio to have 100% control over the content and quality.

Autonomous doesn't mean you're alone. We provide support every step of the way.



A passionate mentor

Starting something new (and doing it successfully) is never easy. Especially when you're on your own. Fortunately, at OpenClassrooms we are passionate and we want you to succeed as much as you do. You are accompanied by an expert throughout your course, who will help you progress and reach your goals.

"I help the students on technical aspects. But it goes beyond that: I motivate them, give them self-confidence, provide them with soft skills for their future career."

PATRICK, OpenClassrooms mentor

PEDAGOGICAL ADVISORS

Obstacles and difficulties happen. Our team of educational advisors are here to help you overcome them by supporting you and ensuring you finish your training on time.

A VIBRANT COMMUNITY

While we provide guidance throughout your training, we also provide you the opportunity to engage with the global OpenClassrooms community on our social network. You're never alone, and you're always connected.

A PERSONAL CAREER COACH

Although you are independently studying, you are never alone. From the start of your training program, you can contact learners and mentors on the OpenClassrooms social network.

Feedback from our students.

Our greatest reward is the impact we have had on the careers of thousands of people since our creation, and we don't intend to stop there.

"For me, doing an earn and learn apprenticeship program was important, because it got me back on track. After six years on my own, it helped me get back into the rhythm of a job, to relearn the relationship with a boss, and it was necessary for me"



STEPHANIE, apprenticeship, payroll manager



"The apprenticeship program is really very professionalizing. I do both strategy, creation, writing... and in my work, I manage a community and I host webinars on a daily basis"

VICTORIA, apprenticeship, marketing strategy expert

We are a B-corp certified mission-driven company

OpenClassrooms has a dedicated team working to make education accessible. This mission is the heart of our organization and guides our path forward. It's this dedication that drove us to attain B Corp certification. A prestigious certification that recognizes businesses that adhere to rigorous social and environmental standards.





Ready to start your career?

Our team is ready to advise you on finding the perfect training program for you!

Contact us

<u>OPENCLASSROOMS</u>