Cybersecurity Master Annual Program

2024

CQURE
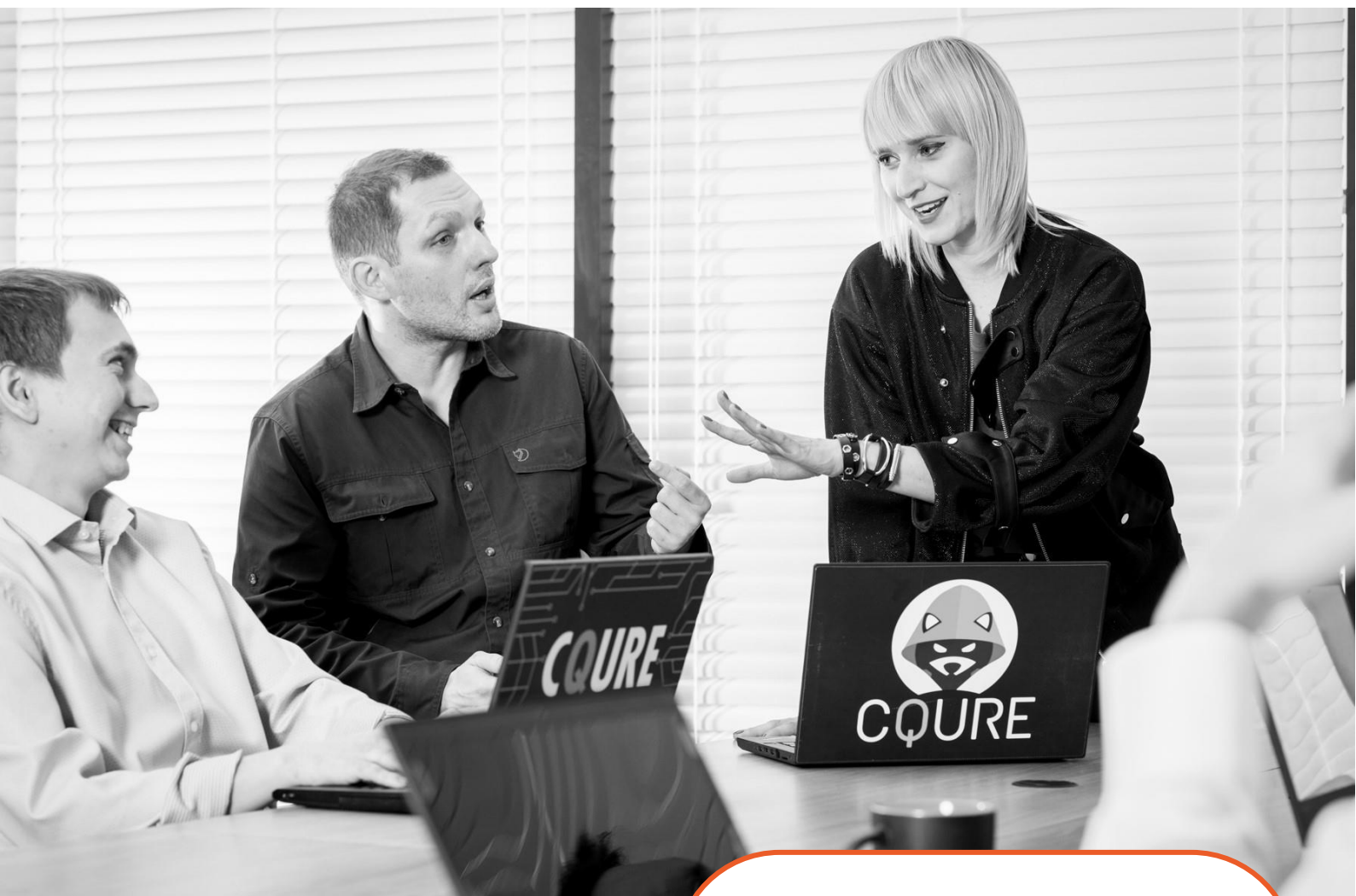
Warsaw   New York   Dubai   Zug

info@cqure.pl

**www.cqure.pl**
www.cqureacademy.com

CQURE

Paula Januszkiewicz is a world-renowned cybersecurity Expert, a founder of CQURE and CQURE Academy, and Microsoft Regional Director and MVP.

CQURE Academy focuses on cybersecurity training program consisting of over 20 high-quality technical workshops and seminars and providing certification to specialists. Additionally, in October 2016 CQURE has successfully launched online and subscription-based training.

CQURE Experts speak at international events and engage in multiple cybersecurity projects – they bring their knowledge and experience to trainings. CQURE Academy also involves R&D – that is why CQURE Team is recognizable in the cybersecurity field.
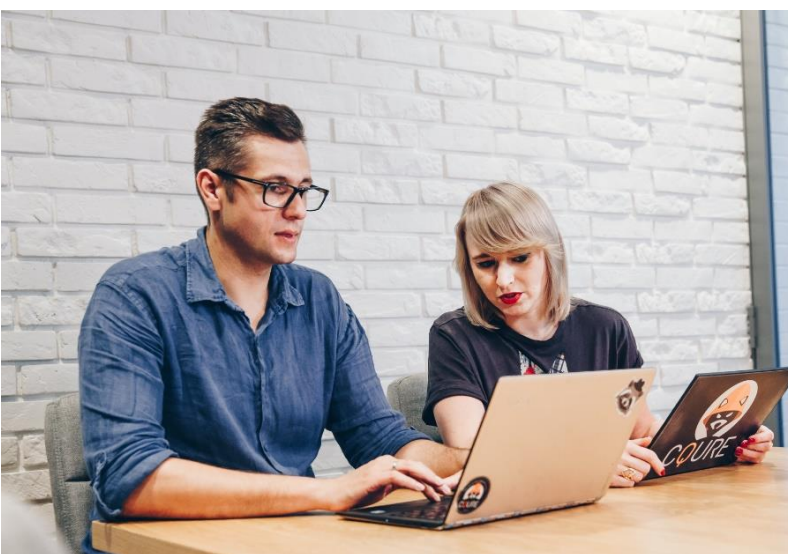
Cybersecurity Master Annual Program

This is a perfect and complete learning path, designed as a continuous program that will keep the participants on top of the latest developments in this ever-changing industry. Every month, the students learn a new essential skill to become a cybersecurity Expert with the most up to date skills. This mastery program is great for people that are starting out in cybersecurity, or are a seasoned IT pro who wants to switch into cybersecurity.

About the course

This course is a live, online certification program divided into 14 modules and spread over 12 months.

All workshops are interactive and demo-intensive and eventually equip you with essential cybersecurity skills for Windows systems. Everything based on the newest content to give you relevant industry knowledge.

The Syllabus covers: Securing Windows platforms, Hardening Active Directory Infrastructure, Mastering PKI & Certificate Services, Mastering Monitoring Operations in Azure, Incident Response, Collecting and Analyzing Digital Evidence, Implementing Privileged Access Workstations, Securing SQL Server, Mastering Code Security, Advancing at PowerShell for Security and Administration, Implementing Secure Azure Active Directory, Pentesting Web Applications, Configuring Application Whitelisting, Building Secure Cluster Infrastructure in the Cloud and Cyber Threat Intelligence.

Last but not least, you get to learn from some of the best cybersecurity specialists in their field: Paula Januszkiewicz, Mike Jankowski-Lorek PhD, Sami Laiho, Michael Grafnetter, Ronald Harmsen, Piotr Pawlik, Damian Widera, Artur Kalinowski and Michał Furmankiewicz.

Raise the bar and learn a proper set of cybersecurity skills. Make sure to adjust your white hat properly to the modern cybercrime landscape!

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CMAP Formula

Join our 14 intensive modules and equip yourself with 14 essential cybersecurity skills for Windows systems!

Intensive workshops

The program consists of **14 modules** covering different area of cybersecurity. Each module is **live** and consists of **8 hours** of interactive and demo-intensive workshops on our special interactive platform. A Discord Server will also be set-up for you to receive continuous assistance and support from CQURE's Experts during the program.

Home-work assignment

Each workshop will be complemented by **pre-work assignment** (some reading material that will help you prepare for the workshop), an additional home assignment (e.g., self-study exercises, additional reading materials, labs etc).

12-month access

All of the live workshops will be **recorded** and accessible for you any time – in case you need to attend some other duties/holidays or simply want to recap. You will have access to each workshop recording for 12 months after the live training.

Best cybersecurity specialists

You will get to learn from some of the best cybersecurity experts in their field. We run all workshops always with the **newest content** to give you relevant industry skills. Everything you will learn has been vetted by passionate practitioners from the CQURE team.

Flexibility

You can enroll in separate modules or in the full program. The decision is yours.

CMAP Curriculum

Skill	Module Title	Date	Instructor
1	Securing Windows Platform: W11 & WS22	25.01.2024	Mike Jankowski-Lorek, PhD
2	Hardening Active Directory Infrastructure	29.02.2024	Michael Grafnetter
3	Mastering Public Key Infrastructure (PKI), Certificate Services	28.03.2024	Paula Januszkiewicz; Mike Jankowski-Lorek, PhD
4	Mastering Monitoring Operations in Azure	25.04.2024	Piotr Pawlik
5	Implementing Privileged Access Workstations	30.05.2024	Sami Laiho
6	Incident Response, Collecting and Analyzing Digital Evidence	27.06.2024	Paula Januszkiewicz
7	Securing SQL Server	25.07.2024	Damian Widera
8	Mastering Code Security	29.08.2024	Ronald Harmsen
9	Advancing at PowerShell for Security and Administration	26.09.2024	Michael Grafnetter
10	Implementing Secure Azure Active Directory	31.10.2024	Piotr Pawlik
11	Pentesting Web Applications	28.11.2024	Artur Kalinowski
12	Configuring Application Whitelisting	12.12.2024	Sami Laiho

Additionally, we offer two Bonus Modules: **Building Secure Cluster Infrastructure in the Cloud & Cyber Threat Intelligence!** If you decide to purchase the entirety of CMAP24 you will receive these Modules **FREE OF CHARGE!**

Skill	Module Title	Date	Instructor
BONUS 13	Building Secure Cluster Infrastructure in the Cloud	14.03.2024	Michał Furmankiewicz
BONUS 14	Cyber threat intelligence	17.10.2024	Paula Januszkiewicz; Mike Jankowski-Lorek, PhD; Piotr Pawlik

Module 1: Securing Windows Platform: Windows 11 & Windows Server 2022
Date: January 25th **Instructor:** Mike Jankowski-Lorek, PhD
a) Defining and disabling unnecessary services
b) Implementing rights, permissions and privileges
c) Code signing
d) Implementing secure service accounts

Module 2: Hardening Active Directory Infrastructure
Date: February 29th **Instructor:** Michael Grafnetter
a) Modern Identity Attack Techniques
b) Preventing Credential Theft and Misuse
c) Recommended AD Configuration Options
d) OS-Level Credential Protection Features: LSA Protected Process, Credential Guard, and RDP Restricted Admin Mode

e)   Detecting Backdoors in Active Directory

Module 3: Mastering Public Key Infrastructure (PKI), Certificate Services
Date: March 28th Instructor: Mike Jankowski-Lorek, PhD

a)   Cryptography basic
b)   Essence of PKI
c)   Best practices for PKI Architecture
d)   Active Directory Certificate Services Migration
e)   Attacks on Certificates Infrastructure & Mitigations

Module 4: Mastering Monitoring Operations in Azure
Date: April 25th Instructor: Piotr Pawlik

a)   Microsoft 365 security from SOC Analyst perspective
b)   Microsoft 365 Defender for Endpoint - EDR story
c)   Detection and Response with Sentinel - Let's attack Contoso network

Module 5: Implementing Privileged Access Workstations
Date: May 30th Instructor: Sami Laiho

a)   Privileged Access Workstations - how and why?
b)   Different hardware and VM solutions for implementing PAWs
c)   Difference between normal and privileged access
d)   Implementing and Managing On-prem PAWs
e)   Implementing and Managing Cloud-service PAWs

Module 6: Incident Response, Collecting and Analyzing Digital Evidence
Date: June 27th Instructor: Paula Januszkiewicz

a)   Evidence Gathering
b)   Memory: Dumping and Analysis
c)   Memory: Indicators of compromise
d)   Disk: dumping & analysis
e)   Disk: extracting and interpreting evidence

Module 7: Securing SQL Server
Date: July 25th Instructor: Damian Widera

a)   SQL Server Security Baseline Concepts
b)   SQL Server Instance Security
c)   Managing Logins & Passwords

Module 8: Mastering Code Security
Date: August 29th Instructor: Ronald Harmsen

a)   Introduction to OWASP Secure Coding
b)   Authentication and Access Control
c)   Hardening your API and Web application

Module 9: Advancing at PowerShell for Security and Administration
Date: September 26th Instructor: Michael Grafnetter

a) PowerShell security and specific hacktools (like DSlnternals)
b) Advanced PowerShell course
c) Auditing Active Directory using PowerShell

Module 10: Implementing Secure Azure Active Directory
Date: October 31th Instructor: Piotr Pawlik

a) Azure AD security settings
b) AAD Identity Protection
c) AAD Privileged Identity Management (PIM)
d) AAD Password Protection

Module 11: Pentesting Web Applications
Date: November 28th Instructor: Artur Kalinowski
a) Cross Site Scripting
b) Injections
c) Insecure File Handling
d) Testing API
e)

Module 12: Configuring Application Whitelisting
Date: December 12th Instructor: Sami Laiho

a) Whitelisting in General
b) Implementing AppLocker
c) Managing AppLocker
d) Troubleshooting AppLocker

BONUS MODULE 13: Building Secure Cluster Infrastructure in the Cloud
Date: March 14th Instructor: Michał Furmankiewicz

a) Planning and designing the secure cluster infrastructure in Azure
b) Securing DevOps pipeline for AKS
c) Confidential computing with AKS

BONUS MODULE 14: Cyber Threat Intelligence
Date: October 17th Instructor: Piotr Pawlik, Paulina Januszkiewicz, Mike Jankowski-Lorek, PhD

a) Threat Intelligence, Assessment and Threat Modeling
b) Open-Source Intelligence Tools and Techniques
c) Patterns of Attack

CMAP Experts

Paula Januszkiewicz
FOUNDER AND CEO OF CQURE

Paula Januszkiewicz is the Founder and **CEO of CQURE Inc. and CQURE Academy**. She is also Enterprise Security **MVP**, honorable **Microsoft Regional Director for CEE** and a world class cybersecurity expert, consulting Customers all around the world. In 2017, Paula graduated from Harvard Business School. She delivers keynotes and sessions at the biggest world conferences such as **RSA, Black Hat, Microsoft Ignite, SecTor Canada, AISA, GISEC, GITEX, LEAP**, and many others. She is often a top-rated speaker, including being a No. 1 Speaker at Microsoft Ignite (among 1,100 speakers at a conference with 26,000 attendees) and Black Hat Asia 2019, also RSA conference where her 2 sessions were amongst the top 5 rated.

Paula has over 19 years of experience in the cybersecurity field, performing penetration tests, architecture consulting, trainings and seminars. Every year, before the pandemic, she took over 215 flights to provide security services, now she delivers tons of projects online. Paula also creates security awareness programs for various organizations, including awareness sessions for top management. Paula is a member of the Technical Advisory Board at Royal Bank of Scotland – helping to keep its security at the highest level possible! What is more, Paula has **access to the source code of Windows!**

Mike Jankowski-Lorek, PhD
DIRECTOR OF CONSULTING, CYBERSECURITY EXPERT

Dr Mike Jankowski-Lorek is a solution architect, developer, data scientist and security expert with more than 20-years' experience in the field. He designs and implements solutions for Databases, Network & Management area, mainly for Microsoft platform for medium to enterprise level organizations. Mike holds multiple certifications, especially security, database and software development related. As a passionate person he loves sharing his knowledge. Since 2007 he has been closely cooperating with Polish-Japanese Academy of Information Technology in Warsaw, teaching security, database and data mining related subjects.

Dr. Mike is additionally interested in Big data, High Availability and real time analytics especially when combined with machine learning and AI or natural language processing. He holds a PhD in computer science and is already an author of multiple scientific publications, including a chapter in "Encyclopedia of Social Network Analysis and Mining" published by Springer. He has appeared at many well-known cybersecurity conferences worlwide such as RSA USA, RSA Asia Pacific & Japan and NT Konferenca Slovenia – or with the CQURE Team – at Black Hat Black Hat USA, Black Hat Europe, Black Hat Asia.

Michael Grafnetter

IDENTITY, CLOUD & SECURITY ARCHITECT, MVP

Michael is an expert on Active Directory security who works as a consultant, trainer, and researcher. He is best known as the author of the open-source Directory Services Internals (DSInternals) PowerShell module and Thycotic Weak Password Finder, tools used by security auditors and penetration testers worldwide. He is a Microsoft MVP and holds a master's degree in Software Engineering. Michael has spoken at many conferences, including Black Hat Europe, HipConf New York, SecTor Toronto, and BSides Lisbon.

Sami Laiho

WINDOWS OS EXPERT, MVP

Sami Laiho is one of the world's leading professionals in the Windows OS. Sami has been working with and teaching OS troubleshooting, management and security for more than 15 years. Sami's session was evaluated as the best session in TechEd North America 2014, TechEd Europe 2014 and TechEd Australia 2013. Sami's session at Ignite 2015 was evaluated as #2 out of 1000+ sessions and all of his four sessions were in the top 15 sessions on the Windows track.

Ronald Harmsen

MCT, Solution & software architect

Ronald Harmsen is a solution architect, developer, trainer and speaker based in the Netherlands. Ronald has been active in professional software development since the mid-90s and has worked on projects for a range of large international companies as well as SME's and startups. His focus is on delivering well engineered, maintainable and secure software. When not working on customer projects, Ronald consults and trains several teams in Scandinavia, UK, Netherlands & Belgium in achieving this by applying DevOps principles, Event Driven Architectures and Domain Driven Design. Currently he mainly works with technologies like Microsoft Azure, Kubernetes and software development in dotnet, building IoT and microservice based cloud-first systems. Ronald can also be found as a speaker on development conferences and meetups.

Piotr Pawlik

CYBERSECURITY EXPERT, EX-MVP

Piotr Pawlik is CQURE's Cybersecurity Expert, System Engineer and Unified Communications Expert with experience in design, implementation, and support for Microsoft solutions. During his work for Orange Business Services, Piotr was responsible for planning and deployment of security solutions for the biggest customers in Poland (insurance, banking, education and government sectors) and many customers located in Europe. Piotr's main areas of expertise are: Microsoft Private Cloud (Hyper-V virtualization and System Center 2012), Microsoft Public Cloud (Office 365 and Azure), Microsoft Exchange Server 2010/2013, Lync Server 2010/2013, Office Communications Servers and Windows Server family. His additional experience includes disaster recovery, capacity planning, virtualization and business continuity. Excellent problem-solving skills and interpersonal skills.

Artur Kalinowski

CYBERSECURITY EXPERT

During almost 20 years of his IT career Artur developed his skills in cybersecurity from different perspectives. His experience ranges from a forensic analytics and a university lecturer to a security administrator. Artur worked for government, financial institutions and for global cybersecurity companies. He is an active member of Institute of Computer Forensics Association and an author of the book "Methods of surveillance and elements of computer forensics". His passion is music. Artur is playing keyboard instruments and creates music with the use of software FL Studio. He likes reading about myths, legends and conspiracy theories.

Damian Widera

SOFTWARE ENGINEER, TRAINER, DATA PLATFORM MVP

Software engineer with over 20 years of professional experience in all aspects of data platform development. He has participated in a number of projects in international environments and possesses practical knowledge of procedures and tools which are necessary for successful implementation of such projects. Damian currently focuses on building solutions based on Microsoft Azure environment including complex database driven systems, machine learning, big data processing, tuning and optimization. As an experienced trainer, speaker and columnist, he is always eager to take part in new engagements. In 2022, for the 14th time, he has been awarded Microsoft's Data Platform MVP. In addition, he holds various Microsoft Certifications since 2004: Microsoft Certified Trainer, Solution Developer and Application Developer for .NET, Database Administrator, Microsoft Certified Solutions Expert.
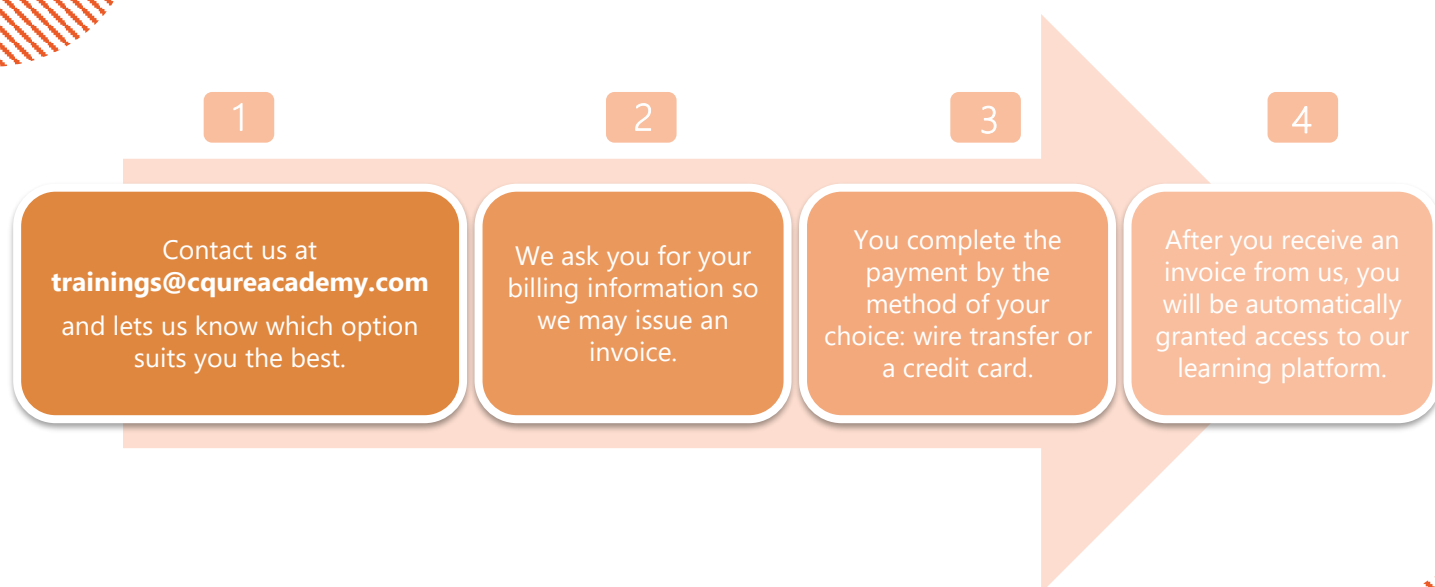
Michał Furmankiewicz

SOFTWARE ENGINEER, FORMER MVP
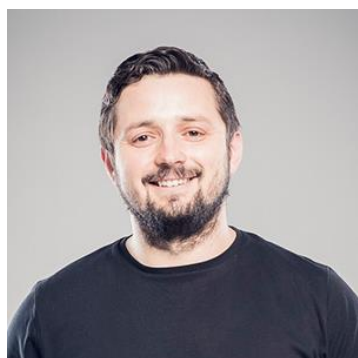
Experienced professional (with 15+ years in business) working in various roles as a consultant, architect and team leader, keen on problem-solving and business enablement through technology. Michal has spent the last 10 years working with various Cloud technologies on the market helping customers to understand the broader concept, build solutions and get the business outcome. He's very goal oriented and passionate about making things happen including whoever is required to make the job done.

How to buy CMAP Program?

Below you will find the timeline for the complete process of purchasing the CMAP 2024:

1

Contact us at
trainings@cqureacademy.com

and lets us know which option suits you the best.

2

We ask you for your billing information so we may issue an invoice.

3

You complete the payment by the method of your choice: wire transfer or a credit card.

4

After you receive an invoice from us, you will be automatically granted access to our learning platform.

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Frequently Asked Questions

What happens if I sign up for the program in May, will I be able to access the previous modules?
Yes, you can sign up at your preferred time and you will get access to all the materials and course recordings from the previous months.

If I sign up just for one skill, will I have the access to the discord channel?
Yes, there will be a different discord channel for each of the modules.

If I sign up for one skill, can I access the next module?
All of the skills are purchased separately, if you decide to sign up for one skill then you can always buy an access to any additional one to boost your knowledge.

If I sign up for one workshop and decide that I would like to take the whole program afterwards, will I be charged the full price?
You will not be charged for the module that you have already for, only for the difference.

Do I need to have any entry knowledge before signing up for the CMAP?
Basic understanding of the IT technologies is something that you should have; however, all the skills come with the pre-work materials that will level your knowledge before taking part in each module.

How does the delivery of each skill look like?
Firstly, you receive the pre-work materials on the subject that will help you with the understanding of the live workshop that comes afterwards. The live workshop will be delivered on the Zoom platform and it will last 8 hours, including breaks. After the workshop concludes, you will receive the post-work materials/ assignments along with a test. You will also be granted access to a dedicated Discord channel.

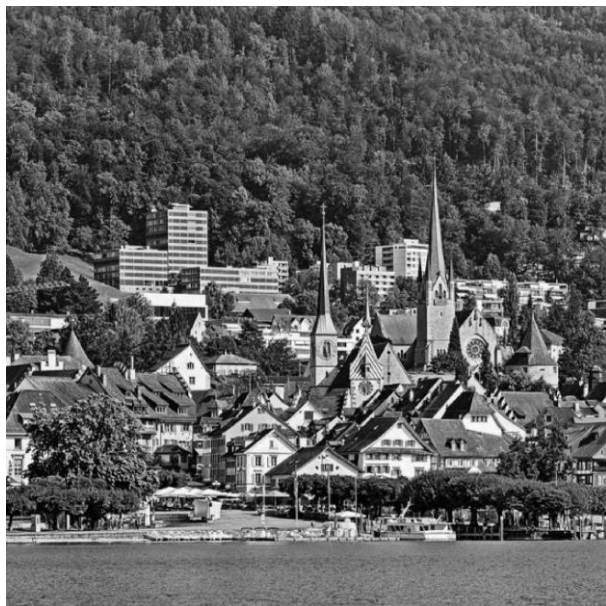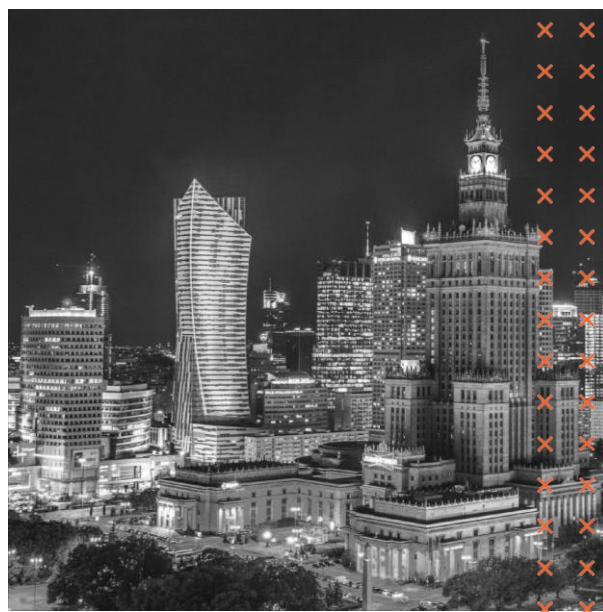**Can I buy the whole CMAP program and share the skills among my colleagues?**
The CMAP program can only be accessed per person, and the access to the individual skills cannot be shared or distributed across other people.

Will there be a new CMAP program next year?
Yes, we will be releasing the new program next year. The program's agenda will be similar to CMAP 2024, however all the sessions will run live again, and any technology upgrades will be included.

Any additional questions? Please send us an email to trainings@cqureacademy.com

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