RIPE NCC
RIPE NETWORK COORDINATION CENTRE

Open House

Academic Cooperation And E-Learning

Welcome to our first Open House!

RIPE NCC Open House
Join us online!

This session is being recorded.

In this session

Moderator
Gergana Petrova
External Relations Officer

Presenter
Rumy Spratley Kanis
Head of Learning and Development

Presenter
Chafic Chaya
Regional Communication Manager
(Middle East Region)

Agenda

- Introduction to the RIPE NCC

- Our Learning and Development services

- The RIPE NCC Academy

- Introducing RIPE NCC Certified Professionals

- Opportunities for Blended Learning

- Open Discussion

About the RIPE NCC

Who we are

- The Regional Internet Registry for Europe, Middle East and parts of Central Asia

- Not-for-profit membership organisation, established in 1992

- Maintain a registry of IP addresses and Autonomous System numbers

- Our technical services:

  - RIPE Database and Routing Registry

  - K-root server, reverse DNS and secondary DNS

  - Internet measurement tools (RIPE Atlas, RIPEstat and others)

  - RPKI Trust anchor and RPKI validator

RACI

The RIPE Academic
Cooperation Initiative

What is RACI?

- Started in 2013 to connect the RIPE and research communities

- Allows academics to present and connect to industry, professionals

- Offers academics the chance to receive feedback from industry professionals

- Successful applicants receive meeting tickets, travel and accommodation to attend

- Applicants can publish their work through RIPE Labs (labs.ripe.net)

Why take part?

- 77.50% made contact with industry professionals (network operators)

- 75.00% received useful feedback on their research

- 62.50% learnt about new ideas/tools/techniques which will be useful for future research

- 57.5% met people they could collaborate with

- 52.5% improved their presentation skills

- 50% made new academic contacts

- 15% made potential employment contacts

RACI so far

- Roughly 75 applications per round (twice a year)

- 5-10 accepted for RIPE Meetings

- 2-3 accepted for MENOG, ENOG, SEE, RIPE NCC Days

- 78 academics from 32 countries funded since 2015

RACI at RIPE 78 in Reykjavik

Find out more

- Presentations, videos and RIPE Labs articles of RACI alumni:

  ripe.net/participate/ripe/raci/alumni

- Subscribe to the mailing List:

  ripe.net/raci/mailing-list

RACI Presentations at ENOG 16

- Oleksandr Tsaruk, École des Ponts Business School, France
  Hybrid Nature of Modern Threats for Cybersecurity and Information Security | Video

RACI Presentations at RIPE 78

- Ali Safari Khatouni, Dalhousie University, Canada
  Implications of Roaming in Europe | Video
- Carolina Are, University of London, UK
  Flaming Isn't Funny: Patterns Towards the Understanding of Online Abusers | Video | RIPE Labs article
- Danilo Giordano, Polytechnic University of Turin, Italy
  Five Years at the Edge: Watching Internet from the ISP Network | Video | RIPE Labs article
- Ignacio Castro, Queen Mary University of London, UK
  10 Years of IXP Growth and its Impact on End-to-End Paths | Video | RIPE Labs article
- Katarzyna Wasielewska, State University of Applied Sciences, Poland
  Available Bandwidth Estimation Problem – Network Calculus in Practice | Video
- Marijana Cosovic, University of East Sarajevo, Bosnia and Herzegovina
  Performance Evaluation of BGP Anomaly Classifiers
- Mattijs Jonker, University of Twente, Netherlands
  A First Joint Look at DoS Attacks and BGP Blackholing in the Wild | Video
- Niels ten Oever, University of Amsterdam, Netherlands
  Taking the High Route | Video
- Timmy Schüller, Osnabrück University, Germany
  Real-world Pitfalls of Segment Routing Traffic Engineering | Video

RACI Presentations at RIPE NCC Day Moscow

- Louis Pétiniaud, Institut Français de Géopolitique
  Geopolitics of Routing | Video | RIPE Labs article

RACI Presentations at MENOG 19

- Louis Pétiniaud, Institut Français de Géopolitique and Loqman Salamatian, Géode, France
  Geopolitics of Routing | Video 1 | Video 2
- Ahmed Aleroud, Yarmouk University, Jordan

Academic Sessions

- Topics: Internet fundamentals, Routing, the RIPE Database, IPv6, RPKI, Internet Governance

- Bachelor/Master students

- Computer science or law

- A different view

- A practical approach

- Current developments and dilemmas

Learning and Development

Learning and Development

- We have trained thousands of network engineers and system admins around the world

- Trainings are for RIPE NCC members, or provided to governments and law enforcement agencies upon request

- Training courses include:

  - RIPE Database

  - IPv6 and IPv6 Security

  - BGP, RPKI and Routing Security

  - Internet Measurements

RIPE NCC Academy

- This is our free, open e-learning platform

- Currently has three courses

  - RIPE Database

  - IPv6

  - Introduction for New LIRs

- The courses are aligned with our certifications

The RIPE NCC Academy

- Virtual learning environment

- Free, open to all to use

- Currently has three courses
  - RIPE Database
  - IPv6
  - Introduction for New LIRs

academy.ripe.net
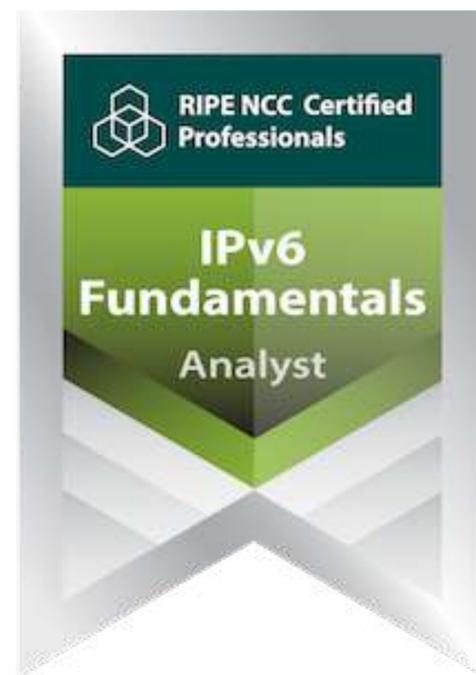
RIPE NCC
Certified Professionals

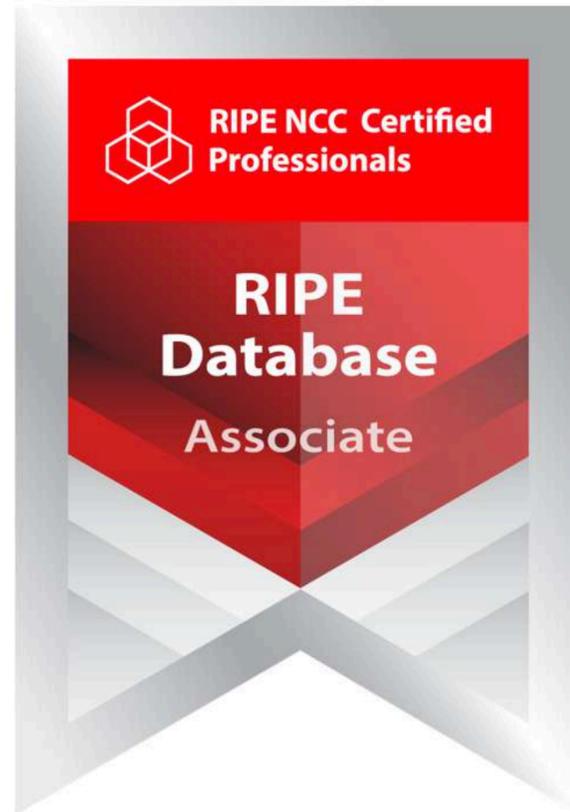# Our Certification Programme

RIPE NCC Certified Professionals

Verified, online exams

- Online using a secure browser
- Supervised by a "live" proctor
- Instant results!
- Digital badges can be shared
- Employers can verify the certification

RIPE NCC Certified Professionals

RIPE Database Associate

Issued by RIPE NCC

A RIPE Database Associate is proficient in searching for and interpreting data in the RIPE Database. Candidates who hold this certification have demonstrated the ability to update and register data in the RIPE Database. These candidates can use different flags to query IP address space (IPv4 and IPv6), as well as register assignments and sub-allocations by applying authority delegation mechanisms. They can also register routing policies, and set-up reverse delegation.

Type: Certification

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Level: Intermediate

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Cost: Paid

Demonstrated Skills

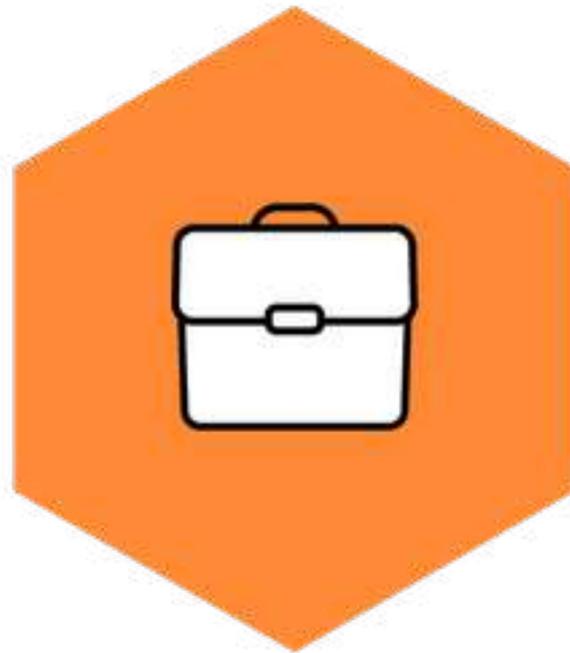| Data Interpretation | Internet Research | IP Address Management | IP Analysis | IPv4 Addressing |

| IPv6 Addressing | Network Registration | rDNS | RIPE Database | RPSL |

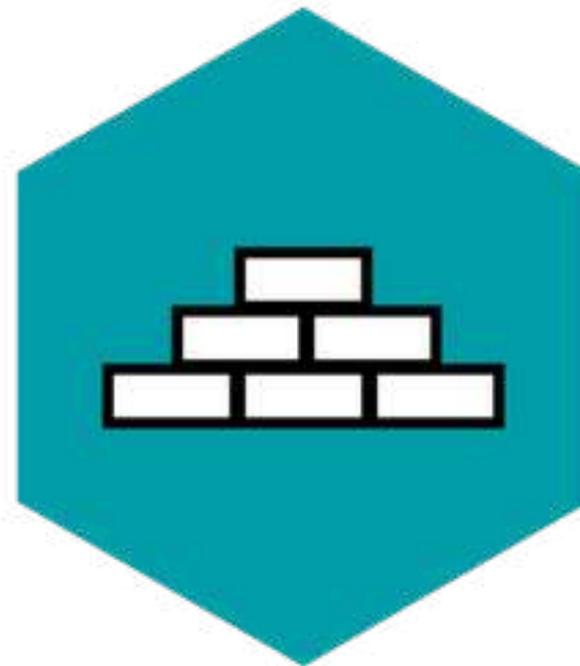## Earning Criteria

☑ Successfully pass the RIPE Database Associate exam by scoring at least 70%
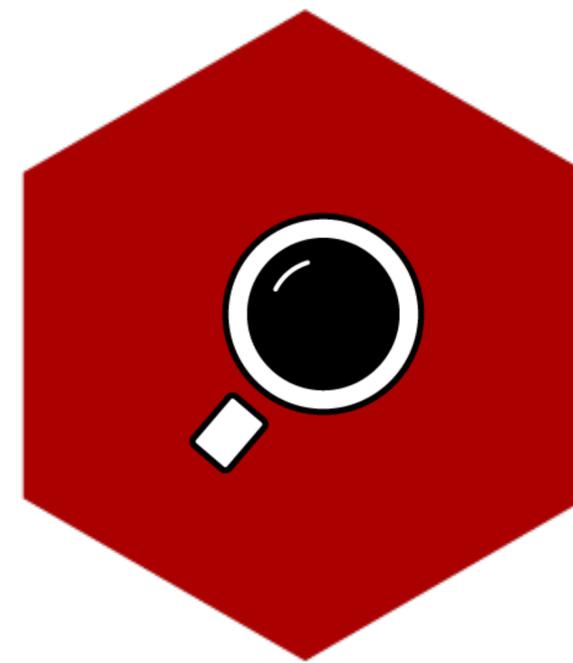
How we develop exams

Job Task Analysis

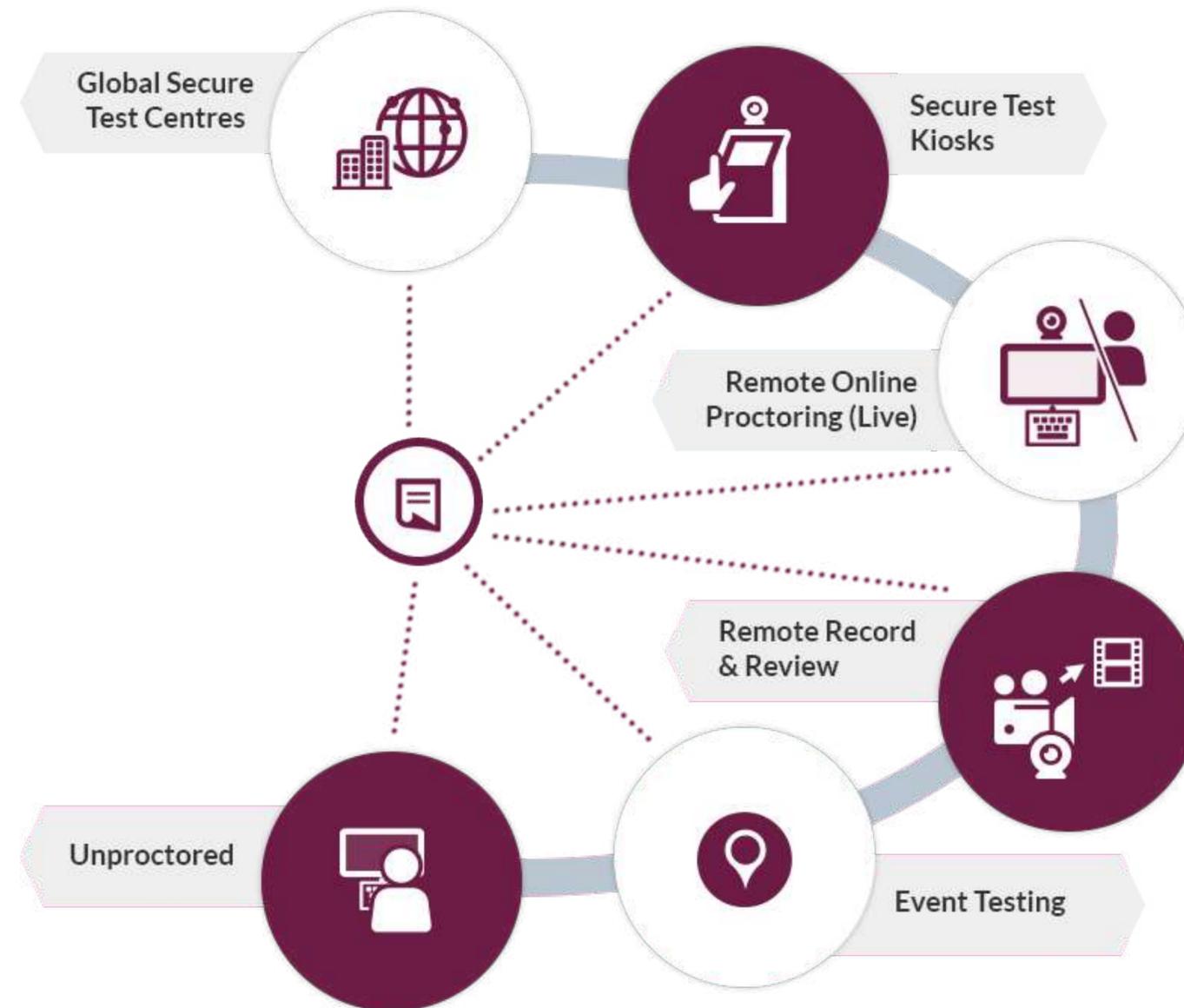**Modularise Online Content**

Online Proctored Exams

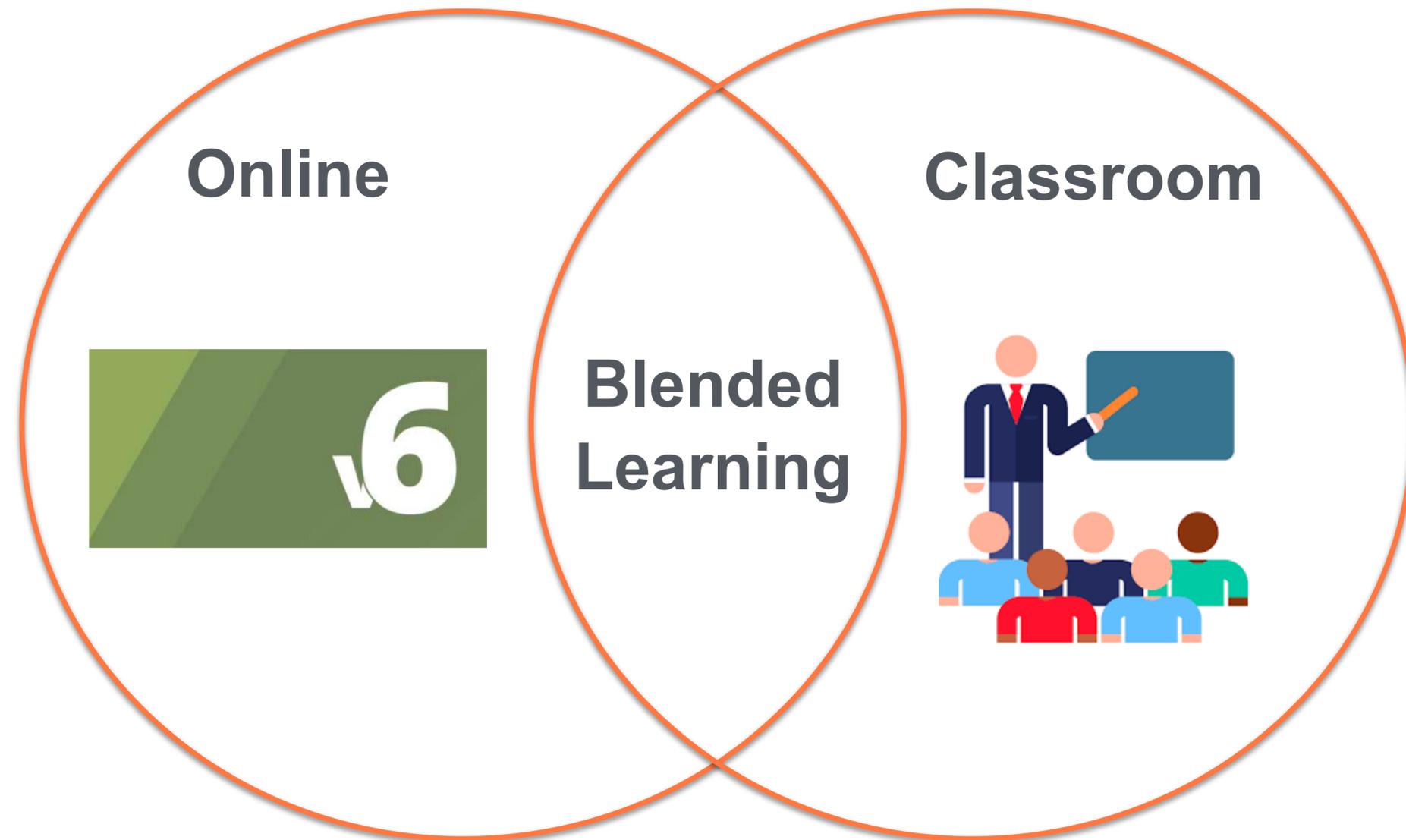**Digital Badges**

Exam Delivery

- We work with an exam platform

- Online using a secure browser and under the supervision of a 'live' proctor

- Live testing and supervision in institutions such as universities

University
Partnership Pilot

Blended Learning Pilot
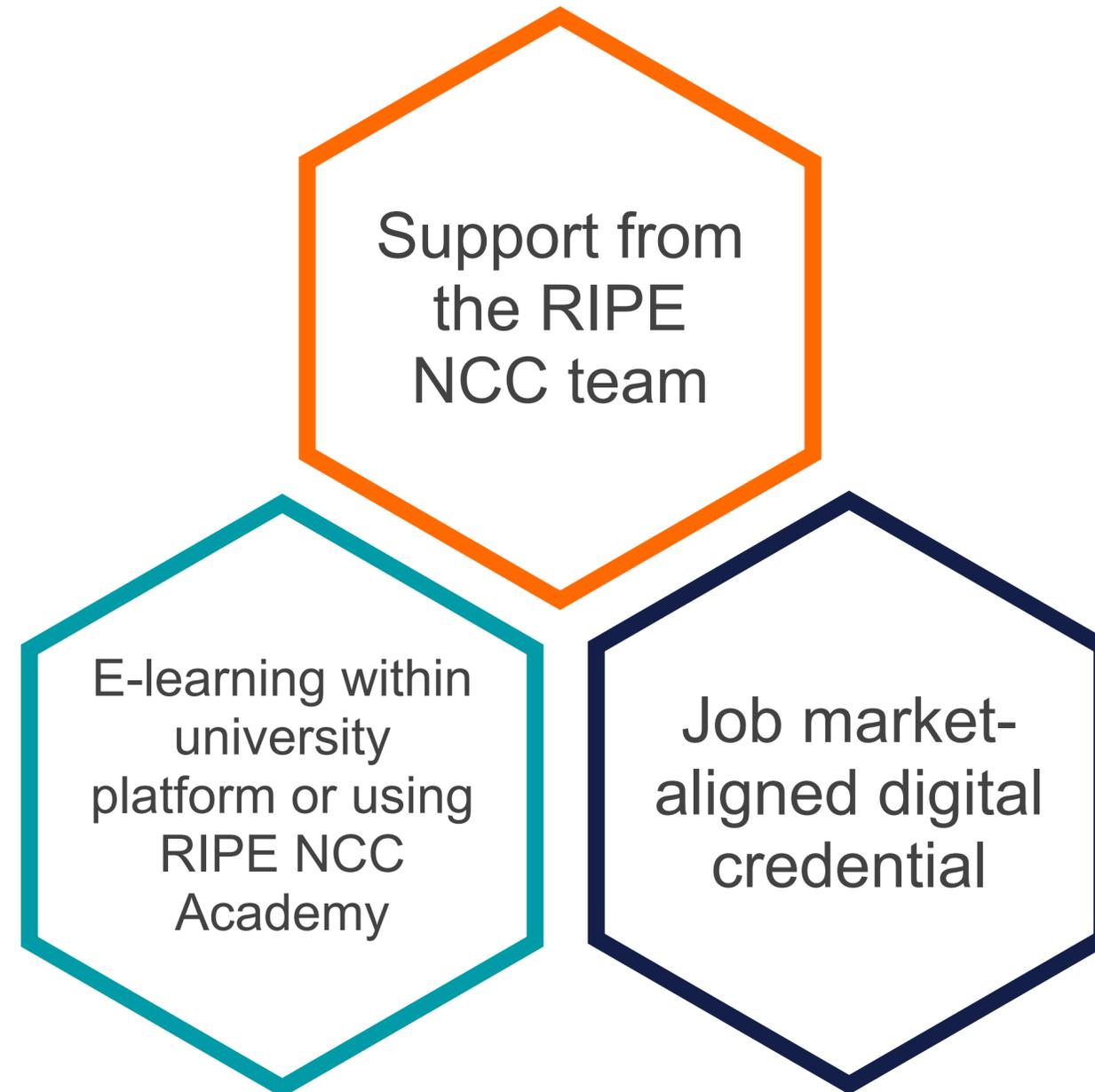
Partnership with the AUB

- We partnered with the American University of Beirut

- Our IPv6 e-learning course was incorporated in the AUB's e-learning system

- Students could access high-quality training material, usually given to networking professionals

- The AUB professors could track their students' progress

- Eliminates the need to recreate existing content

- In the future, students can earn a certification aligned to the job-market at the end of their blended learning module

The AUB and RIPE NCC teams

Blended Learning Model

Support from the RIPE NCC team

E-learning within university platform or using RIPE NCC Academy

Job market-aligned digital credential

Discussion: The COVID-19 Impact

- What is the impact that you see?

- Are you planning to bring in more e-learning?

Questions

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