## Course Structure

The courses will be organized into the following learning objectives.

Course 1: Fundamentals of Networking

Lesson 1: Introduce the fundamentals of networking

Lesson 2: Understand the basic elements of a computer network

Lesson 3: Review the common network models

Lesson 4: Describe the layers of a network and introduce network models

Lesson 5: Review the common network models

Lesson 5: Review the basics of network packets and protocols

Lesson 6: In-depth review of TCP/IP model, and the functions of each layer

Course 2: Fundamentals of Cyber Security

Pre-requisite: Fundamentals of Networking

Lesson 1: Introduce cyber security and why it’s important

Lesson 2: Discuss common network protocols

Lesson 3: Review network security services and secure protocols

Lesson 4: Understand the basics of cryptography

Lesson 5: Explain security governance and the basics of risk management

Lesson 6: Understand security policies and standards

Lesson 7: Understand the basics of physical asset security

Lesson 8: Describe cyber security vulnerabilities

Lesson 9: Understand cyber security controls

Lesson 10: Review current security frameworks, standards and best practices

Lesson 11: Explain cyber security incident management

Lesson 12: Understand business continuity and disaster recovery

Lesson 13: Review supplier/third party risk management

Lesson 14: Understand application development security

Lesson 15: Review of legal, regulatory & compliance issues

Lesson 16: Discuss cyber security education, training and awareness programs

Upon successful completion of this course, the student will have a firm grasp of the fundamentals of cyber security and can apply these principles to the planning and implementation of blockchain technology.

A pre-requisite for Fundamentals of Cyber Security will be a basic understanding of computer networking. Therefore, we will include a 1-day basic networking course requirement that can be met by attendance or the successful completion of a Networking Fundamentals exam.

For more information, contact: Ronald S. Clement @ president@cyberquest.digital