TRAINING CONTENTS

Session	Name of the Topics	Contact Hour
Session 01	Module 1 – Computer Networks ● Introduction ● Types of Computer Networks	3
Session 02	Module 1 – Computer Networks ● Goals of Computer Networks ● Network Topology	3
Session 3	Module 2 – Computer Network Architecture ● Protocols ● The TCP/IP Protocol Suite	3
Session 4	Module 2 – Computer Network Architecture ● The OSI Model ● Service Primitives and Parameters	3
Session 5	Module 2 – Computer Network Architecture ● Layers of the OSI Model	3

Session 6	Module 4 – Data Transmission Fundamentals ● Basic Concepts ● Frequency-Domain Consideration of Signals and Transmission	3
Session 7	Module 5 – Data Transmission Fundamentals ● Metallic Transmission Media ● Optical Fiber	3
Session 8	Module 5 – Data Transmission Fundamentals ● Unguided Transmission Techniques	3
Session 9	Module 5 – Data Transmission Fundamentals ● Unguided Transmission Techniques (continued)	3
Session 10	Module 5 – Data Transmission Fundamentals ● Transmission Systems	3
Session 11	Review Session ● Based on the contents of Training Session 01 to 10	3
Session 12	Module 6 – Data Encoding ● Digital Data into Digital Signals ● Digital Data into Analog Signals	3
Session 13	Module 7 – Digital Data Communications Techniques ● Voice-Band Transmission System ● Broadband Transmission System	3

Session 14	Module 7 – Digital Data Communications Techniques ● Error Detection Techniques ● Transmission Line Interfaces	3
Session 15	Module 8 – Multiplexing ● Frequency Division Multiplexing ● Time Division Multiplexing	3
Session 16	Module 9 – Switched Data Communication ● Circuit Switching ● Control Signaling in Circuit-Switched Network	3
Session 17	Module 9 – Switched Data Communication ● Packet Switching ● Routing in Packet-Switched Network	3
Session 18	Module 10 – Local Area Networks ● LAN Technology ● Medium Access Control Protocols	3
Session 19	Module 11 – Practical Works ● IP Configuration	3
Session 20	Mentorship Session: A dedicated session with an industry expert to discuss career opportunities, real-world applications of Basic Networking, and insights into the latest trends.	3

	Total Class Hours	60 hours