Network Administrator Level 1

Beyond the Cloud is designed to empower you for success in the rapidly evolving IT landscape. This is a 10-week comprehensive program that provides essential technical and soft skills training for in-demand digital infrastructure roles. Please note *Transition to your Cloud Career* and *Agile Industry Mindset (AIM)* workshops run concurrently with Technical and Soft Skills courses during the 10-week period. Please contact your administrator for the schedule. Only Newcomers to Canada are invited to AIM (a newcomer is someone who has immigrated to Canada within the last 5 years).

	Course Name	Lessons	Learning Platform	Learning Objectives	Level and Time Commitment
Course 1	**Internet History, Technology, and Security**	• Internet • Architecture • Internet Security • IP Suite	Coursera	After this course you will not take the Internet and Web for granted. You will be better informed about important technological issues currently facing society. You will realize that the Internet and Web are spaces for innovation, and you will get a better understanding of how you might fit into that innovation. If you get excited about the material in this course, it is a great lead-in to taking a course in Web design, Web development, programming, or even network administration. At a minimum, you will be a much wiser network citizen.	• Beginner level • 15 hours (approximately)
Course 2	**Designing and Implementing Microsoft Azure Networking Solutions**	• Networking	Microsoft Learn	This course teaches Network Engineers how to design, implement, and maintain Azure networking solutions. This course covers the process of designing, implementing, and managing core Azure networking infrastructure, Hybrid Networking connections, load balancing traffic, network routing, private access to Azure services, network security and monitoring. Learn how to design and implement a secure, reliable, network infrastructure in Azure and how to establish hybrid connectivity, routing, private access to Azure services, and monitoring in Azure. This course helps prepare you for the AZ-700 exam.	• Intermediate level • 11 hours (approximately)
Course 3	**Introduction to Networking and Cloud Computing**	• Networking	Coursera	How to set up a cloud computing environment, virtual machines and cloud services. How to use network security components, approaches and mitigation. How to set up common network infrastructure and monitoring. How to produce a coherent expansion plan for a business enterprise to take advantage of cloud infrastructure.	• Beginner level • 30 hours (approximately)
Course 4	**Connect and Protect: Networks and Network Security**	• Network Security	Coursera	Define the types of networks and components of networks. Understand how to secure a network against intrusion tactics. Illustrate how data is sent and received over a network. Describe system hardening techniques.	• Beginner level • 14 hours (approximately)
				TOTAL HOURS	70 hours (approximately)