

Communication Technician (CTA) Apprenticeship Curriculum Mapping

Program Curriculum

A collection of 11 CTS courses has been developed to align with the current Communication Technician Apprenticeship Course Outline. These courses, when combined, cover the First Period technical training content.

Alberta Apprenticeship Training Profile First Period	CTS Course Alignment to Apprenticeship First Period Topics	Assessment
Topic	CTS Course Number and Name	
SECTION ONE – STANDARD WORKPLACE SAFETY		
Safety Legislation, Regulations and Industry Policy in the Trades	CTA3900: Apprenticeship Safety	
Climbing, Lifting, Rigging and Hoisting		
Hazardous Materials and Fire Protection		
Lab Safety Awareness and Hazardous Materials		
SECTION TWO – BASIC ELECTRICITY		
Electricity Fundamentals	CTA3400: Electricity Fundamentals	
Passive Electrical Components		
DC Circuits	CTA3405: AC/DC	
Small Signal AC Circuits		
Analytical Troubleshooting		
Basic Electricity Lab	CTA3410: Basic Electricity	
SECTION THREE – TRADE MATHEMATICS		
Advanced Mathematical Topics	CTA3415: Mathematics	
Alternative Numbering Systems		
SECTION FOUR – CABLE PLANT ARCHITECTURE I		
Cabling Standards	CTA3420: Outside Cabling	
Outside Plant Architecture		
Inside Plant Architecture	CTA3425: Inside Cabling	
Bonding and Grounding		
Cabling Lab		



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SECTION FIVE – TELEPHONY		
Communication Network Overview and Terms	CTA3430: Telephone Basics	
Basic Telephone Line		
Basic Telephone Set		
Telecommunications Systems		
Basic Switching System Functions	CTA3435: Switching & Equipment	
Basic Customer Terminal Equipment		
Basic Telephony Operation		
SECTION SIX – PRACTICAL IP FUNDAMENTALS I		
Network Fundamentals	CTA3440: Network Fundamentals	
Networking Standards		
Network Devices	CTA3445: Network Devices & IP	
IPv4 Addressing		
Network Lab		
CTS COURSES THAT ALLOW STUDENTS ADDITIONAL PRACTICAL TIME		
	CTA3450: CTA Practicum A	
	CTA3455: CTA Practicum B	
	CTA3460: CTA Practicum C	
	CTA 3465: CTA Practicum D	