



# Certification Exams

## **Reference Lists**

**Level 2** Certified Assistant Technician

**Level 3** Certified Technician

**Level 4** Certified Senior Technician

Content #	Content Area	Available References	Level 2	Level 3	Level 4	Equivalent Canadian Standard
1	Safety	NFPA 70E Standard for Electrical Safety In The Workplace, NFPA, 2015	x	x	x	CSA Z462-2015
		OSHA	x	x	x	OH&S
		OSHA 1910	x	x	x	OH&S
		OSHA 1926	x			OH&S
		IEEE 1584-2002 (including Amendment 1 & 2)	x	x	x	
		OSHA 29 CFR 1910.146		x		OH&S
		OSHA Letter of Interpretation, Dec 6, 1999		x		
2	Electrical Testing Fundamentals and Theory	NETA Official Formulae Sheet	x	x	x	
		National Electrical Code, NFPA 70-2014	x	x		CSA C22.1-2015
		SI Unit Conversion	x			
		ANSI/IEEE Standard C37.2, 2008	x	x		
3	Component Testing	ANSI/NETA ATS, Standard for Acceptance Testing Specifications for Electrical Power Equipment and Systems, 2017 Edition	x	x	x	
		ANSI/NETA MTS, Standard for Maintenance Testing Specifications for Electrical Power Equipment and Systems, 2015 Edition	x	x	x	
		ASTM D120-14a, 2009 edition	x	x	x	
		E C & M May 1 2009, ""The Basics of Variable-Frequency Drives	x			
		Electrical Power Equipment Maintenance and Testing, Paul Gill, CRC Press, 2009	x	x	x	
		GE ground fault protection systems performance testing, GEI-48907	x	x	x	
		General Electric GEH-6273E	x			
		Getting Down to Earth by AVO/Megger	x	x	x	
		IEEE 43-2013	x	x	x	
		IEEE 81-2012	x	x		
		IEEE 141-1993	x	x	x	
		IEEE 315-1975 (Reaffirmed 1993)	x	x	x	
		IEEE 450-2010	x	x	x	
		IEEE 1222-2011	x			
		IEEE C37.016-2006	x			
		IEEE C37.108-1990	x			
		IEEE C37.108-1990	x			
		IEEE C37.20.1-2002	x			
		IEEE C62.11-2012	x			
		Manufacturers' published data	x	x	x	
		National Electrical Code, NFPA 70-2014	x	x	x	CSA C22.1-2015
		NEMA AB-4	x	x		
		NEMA ICS 2-2000 (R2005)	x			
		NEMA MG1-2011	x	x	x	
		NEMA Standard 250	x			
		NEMA Standard 250 - 2014	x			
		NEMA Standard ICS 2-2000 (R2005)	x			
		NFPA 70B Recommended Practice for Electrical Equipment Maintenance, NFPA, 2013	x	x	x	
		UL Marking and Application Guide Wire and Cable January 2012	x			
		UL Std 248-12	x			
		IEEE 400		x		
		IEEE 400.1			x	
		IEEE 400.2-2013			x	
		IEEE 400.3				
		IEEE 399-1997			x	
		The Relay Testing Handbook, Werstiuk			x	
		<a href="http://www.thefoa.org/tech/connID.htm">http://www.thefoa.org/tech/connID.htm</a>			x	
		IEEE 519-2014			x	
		AVO/Megger "A Stitch in Time"			x	
		IEEE C37.1-2007			x	x
		Handbook Electricity Metering, 9th Edition			x	x
		IEEE C57.13-2008			x	x
		IEEE C57.12.90-2015			x	
		Eaton Application Note Zone Interlocking, 2003			x	
		Bureau of Reclamation, Facilities Instructions, Standards and Techniques, Volume 3-31			x	
		IEEE 100			x	x
		NETAWORLD Fall 2008 "High Resistance Grounding....."			x	
		IEEE Std. C37.1-2007			x	x
		Power Distribution Planning Reference Book, Second Edition, By H. Lee Willis			x	
		General Electric User's Guide GEH-6273E			x	
IEEE Std. C57.104			x			
Bureau Of Reclamation F.I.S.T. 3_6 Storage batteries Maintenance And Principles			x			
FACILITIES INSTRUCTIONS, STANDARDS, AND TECHNIQUES VOLUME 3-31			x			
NETAWORLD Winter 2013 "Special Considerations for Lightning Grounding"			x			
Megger's publication A Guide to Low Resistance Testing			x			
Performance Testing Handbook, GEI-48907			x			
Protective Relaying for Power Generation Systems, by Donald Reimer			x			

Content #	Content Area	Available References	Level 2	Level 3	Level 4	Equivalent Canadian Standard
3	Component Testing (Continued)	IEEE 80		x	x	
		IEC 1010		x		
		IEEE C37.23-2003		x		
		IEEE Paper, 2002 Degradation of Power Contacts in Industrial Atmosphere: Silver Corrosion and Whiskers		x		
		NETAWORLD Winter 2008-2009 AC Drives and Soft Starter Application Guide		x		
		ASTM F855-09		x		
		IEEE 605-2008		x		
		Introduction to infrared thermography principles by Fluke		x		
		Specifying the Right Fuse for Circuit Protection E C & M		x		
		EC&M, Troubleshooting PLCs by Ryan G. Rosandich		x		
		IEEE 1313.1-1996		x		
		<a href="http://www.okonite.com/engineering/technical_news/Tech_27.pdf">http://www.okonite.com/engineering/technical_news/Tech_27.pdf</a>		x		
		IEEE 1594-2008				x
		IEC 1010				x
		IEEE Std. C37.110-2007				x
		NEMA BU 1.1-2010				x
		<a href="http://apps.geindustrial.com/publibrary/checkout/Resistance-Gro?TNR=White%20Papers Resistance-Gro generic">http://apps.geindustrial.com/publibrary/checkout/Resistance-Gro?TNR=White%20Papers Resistance-Gro generic</a>				x
		IEEE 142				x
		IEEE C57.12.00-2010				x
		IEEE 242				x
		IEEE C62.22-2009				x
		IEEE C37.20.6-2015				x
		IEEE 739-1995				x
		IEEE C57.104-2008				x
		Power System Relaying By Stanley H. Horowitz, Arun G. Phadk				x
		IEEE 48-2009				x
		NFPA 79, 2015 Edition				x
		American Electrician's Handbook 13 edition				x
		Control Engineering Nov. 16, 2010 "How to Select a VFD"				x
		Schneider Electric, Reducing Fault Stress with Zone-Selective Interlocking				x
		IEEE C57.147-2008				x
		IEEE C37.46				x
		ABB Gas Detector Technical Guide, 1ZUA5663-211, Aug 2008				x
		ASTM D923-07				x
		S & C Electric "Selection Guide for Transformer Primary Fuses in Medium and High Voltage Utility and Industrial Substations" Data Bulletin 210-110				x
		ANSI/NEMA C29.10-1989				x
		ANSI/NEMA C29.2A-2013				x
		IEEE T&D Insulators 101				x
		IEEE C37.40				x
		ASTM D3487				x
IEEE C57.106-2006				x		
Blackburns Protective Relaying				x		
EC&M Oct 16 2013 "Identifying the pitfalls in the arc fault calculation process" by D. Edwin Scherry				x		
4	Systems and Commissioning	ANSI/NETA ECS, Standard for Electrical Commissioning Specifications for Electrical Power Equipment and Systems, 2015 Edition	x	x	x	
		<a href="http://www.thefoa.org/tech/connID.htm">http://www.thefoa.org/tech/connID.htm</a>		x		
		Elements of Power System Analysis, Stevenson, McGraw-Hill 1982			x	
		IEC 61850 Communication Networks and Systems In Substations: An Overview for Users, by Mark Adamiak , Drew Baigent GE Digital Energy, Ralph Mackiewicz SISCO			x	
		A Guide to Paralleling Electrical Systems NETAworld Fall 2008			x	
		IEC 61850 Section 6			x	
		Paper - Event Driven Testing of Fault Clearing Systems, Dr. Alexander Apostolov, Benton Vandiver, Will Knapke...Power Test 2011			x	
		Fiber Optic Association guide to fiber optics and premises cabling			x	