












NAEC Approved Continuing Education



The following courses/sessions have been reviewed and approved by the NAEC Education Committee for credit toward CET and/or CAT recertification. Please contact the listed provider for enrollment information. Symbols next to each course title indicate the delivery method.

	Text Based	Courses that are completed by reading or studying a book. Text-based courses have an exam which may be online.
	Web / Computer Based	Courses that are completed online (including webinars) or delivered via CD ROM
eL	eLearning	Courses that are completed online and delivered via Peach system
	Seminar/Classroom	
	Article Based	Courses that are completed by reading or studying an article. Article-based courses have an exam which may be online.



NAEC: For enrollment information contact Kathy Bell at 800-900-6232 or visit www.naec.org

	Course Title	Contact Hrs	CET	CAT	Safety
	DC Drives Course based on <i>Electronic Variable Speed Drives (Delmar)</i> , 3 rd Edition, Chapters 1-8, by Michael Brumbach. (Book available through Elevator World)	4.00	X		
	AC Drives Course based on <i>Electronic Variable Speed Drives (Delmar)</i> , 3 rd Edition, Chapters 10-15, by Michael Brumbach. (Book available through Elevator World)	4.50	X		
	Device Review Course based on <i>Electronic Variable Speed Drives (Delmar)</i> , 3 rd Edition, Appendix A-E, by Michael Brumbach. (Book available through Elevator World)	2.50	X		
	EMS Freight Door Installation Installation guide provided by EMS Group. Online exam. CD ROM available through NAEC or EMS Group. EMS contact: 800-489-4889 or emsdoors.com	1.50	X		
	Passenger Elevator Door Equipment – Chapters 1-2 Chapter 1: Door Types <ul style="list-style-type: none"> • Chapter 2: Preparation of Shaft & Clearances Inactive CD Rom available through NAEC – content provided by Columbia Elevator Products & GAL Manufacturing. Exam online.	1.00	X		
	Passenger Elevator Door Equipment – Chapters 3-4 <ul style="list-style-type: none"> • Chapter 3: Installation of Sliding Passenger Elevator Entrances • Chapter 4: Hoistway Equipment Inactive CD Rom available through NAEC – content provided by Columbia Elevator Products & GAL Manufacturing. Exam online.	1.50	X		
	Passenger Elevator Door Equipment – Chapters 5-6 <ul style="list-style-type: none"> • Chapter 5: Car Equipment • Chapter 6: Swing Hoistway Inactive CD Rom available through NAEC – content provided by Columbia Elevator Products & GAL Manufacturing. Exam online.	1.50	X		
eL	2 Way Communication and Applicable Code Kings III	1.50	X	X	
eL	A17.1/B44 Maintenance Control Program Elevator Safety Solutions, LLC	1.00	X		
eL	Addressing the Most Common Questions Related to Retrofit Code Electrodyn	1.50	X		
eL	ALP Elevator Wire Rope Seminar ALP Industries, Inc.	1.50	X	X	
eL	ASME A17.4 – Guide for Emergency Personnel Elevator Safety & Technical Services	1.00	X	X	
eL	Avoiding Trouble with Retrofit Drive Installations Magnetek	1.00	X	X	
eL	Coated Traction Ropes Brugg Wire Ropes	1.00	X	X	


	Course Title	Contact Hrs	CET	CAT	Safety
eL	Comparing Layout, Setup, & Adjustments of GALaxy III to GALaxy IV GAL, Mfg.	1.00	X		
eL	Control Valves EECO	1.00	X	X	
eL	Creating Code Compliant Maintenance Control Programs Vertical Assistance	1.00	X		
eL	Customizing Vertical Platform Lifts Handilift	1.00	X	X	
eL	Debunking Myth of Elevator Energy James W Bos, LLC	1.00	X	X	
eL	Door Operators Columbia Elevator Products	1.00	X	X	
eL	Door Re-Opening Code & Safety Training SCS Elevator Products	0.50	X		
eL	EECO Hydraulic Control Valve Training Elevator Equipment Corp.	1.00	X	X	
eL	Electrical Motor Repair - MOD Coupler Installation Demo Electrical Motor Repair Co	0.50	X		
eL	Electrical Safety Magnetek	1.00			X
eL	Elevator & Escalator Inspection/Testing Techniques Swett Corp.	1.00	X		
eL	Elevator Lighting/Ceiling Materials ECI	0.50	X	X	
eL	ELVI Testing without Weights Wurtec	1.00	X		
eL	Employee Improvement Program Impacts Products, Customer Service & Profits MEI	0.50	X		
eL	Fall Protection D-C Elevator/Delaware Elevator	1.00			X
eL	Fiber Optic Cables Draka Elevator Products	1.00	X		
eL	Hand & Power Tool Safety Hub International	0.50			X
eL	How to Adjust Rope Tension & Shackles Draka	1.00	X	X	
eL	Hydraulic Telescopic Jack Application & Service Elevator Equipment Corp.	0.50	X	X	
eL	Improving Hydraulic Elevator Performance with a Leveling System Upgrade Vertitron	0.50	X		
eL	Introducing & Installing the Rope Gripper and Various Training Procedures Hollister-Whitney	1.00	X		
eL	Job Hazard Assessment – a Plan for Work Safety Vertical Assessment Associates	1.00			X
eL	Lightweight Stone Panel Systems for Elevators Stoneworks of Art	1.00	X	X	
eL	Load & Temperature Compensation Method for Green Hydraulic Lifts by Means of Inverters Blain Hydraulic	1.00	X	X	
eL	Lubrication & Elevator Ropes Brugg Wire Rope	1.00	X	X	
eL	Material & Technology in Elevator Cab Interiors SnapCab	1.00	X		
eL	Mechanical & Electrical Adjustment of MOVFR Door Operators GAL, Mfg.	0.50	X		
eL	Moisture Means Death for Hoist Ropes Brugg Lifting	1.50	X	X	

	Course Title	Contact Hrs	CET	CAT	Safety
eL	MRL Market Alliance Elevator Solutions	1.00	X		
eL	MRL vs. Overhead Traction Motion Control Engineering	1.00	X	X	
eL	One; Three; & Five Year Tests of A18.1 Equipment Vertical Assessments	1.00	X	X	
eL	Platform Lift Design: Top 10 Code Issues Handi-Lift	1.00	X	X	
eL	Principles of ITI Inground Telescopic Cylinder ITI Hydraulik	0.50	X	X	
eL	Residential Elevators & the 3x5 Rule Savaria	0.50	X	X	
eL	Running Clearances 101 Integrity Elevator	1.00	X	X	
eL	Safe Elevator Operation with Serial I/O Virginia Controls	1.00	X		
eL	Sealing Management for Hydraulic Cylinders The Texacone Co	1.00	X	X	
eL	Suspension Rope Dynamics Wurtec	1.00	X	X	
eL	Technology, Functionally & Operations of the Controller Line – Element Traction™ & Element Hydro™ Motion Control Engineering	1.00	X		
eL	The 5 Step Guide to the 70 Hour Hydraulic Installation Alliance Elevator Solutions	1.00	X		
eL	The Evolution of Elevator Control Systems Elevator Control Corp.	1.00	X		
eL	The Fan Club Man-D-Tec	1.00	X	X	
eL	The World is Flat ... ETP vs. ETT Traveling Cables Turtle & Hughes	1.00	X	X	
eL	Use of False Cars for Rail Installation Wurtec	0.50	X		
eL	Vertical Wheelchair Lifts & Limited Uses/Limited Application Elevator Service Co Inc.	1.00	X	X	
eL	Watts Up with Cab Lighting Man-D-Tec	1.00	X	X	
eL	What's New with Seismic Requirements.... What are the Requirements to Control Unintended Motion Draka Elevator	0.50	X	X	
	NAEC Articles Read the article & complete the quiz at the end of article or complete the test online.				
	False Car (March 2013)	1.00			X
	Course Title	Contact Hrs	CET	CAT	Safety
	NAEC Spring Conference 2017 March 26 - 29, 2017, Scottsdale, Arizona - Sessions approved are as follows:				
	➤ Elevator Emergency Code Refresher	1.00	X		
	➤ Optimizing Best Rope & Roping System Performance	1.50	X		
	➤ Roped Hydraulic Applications, Installations & Maintenance	1.00	X	X	
	➤ Rack & Pinion Elevators – Education & Code	1.00	X		
	➤ Elevator Traveling Cable + Compensation Cablenae Installation (roundtable)	1.00	X	X	
	➤ Healthiest & Safest Elevator Pit Environment (roundtable)	1.00			X
	➤ Private Residential Elevator Code Changes 2017 (roundtable)	1.00	X	X	
	➤ American Red Cross First Aid Course	1.50			X





Alliance Elevator Solutions: For more information, contact Travis Hall thall@allianceelevator.net.

	Course Title	Contact Hrs	CET	CAT	Safety
	Installing Hydraulic Elevators Quicker than the OEMs This is course will provide guidance on how to install 2-5 stop hydraulic elevators quicker than the large OEMs.	1.00	X		
	The Complete 7 Day Hydraulic Installation This is course is designed to hone technical skills of mechanics for safe and expeditious install.	8.00	X		






ALP Industries Inc: For more information, contact Edward W Hamilton ewhamilton@alpindustries.com.

	Course Title	Contact Hrs	CET	CAT	Safety
	ALP Elevator Wire Rope Seminar This is course will discuss the components of wire rope including construction, grades and cores, the types of wire rope sheaves, factors that affect service life of wire ropes and the inspection of wire rope.	1.50	X		





American Heart Association: Visit www.heart.org for information about the Workplace Training.

	Course Title	Contact Hrs	CET	CAT	Safety
	HeartSaver CPR The Heartsaver CPR Course teaches CPR and relief of choking in adults and children, and infant CPR and relief of choking, and use of barrier devices for all ages.	3.00			X
	HeartSaver AED The Heartsaver CPR Course teaches skills such as giving CPR to an infant, child or an adult and using an AED.	3.00			X
	HeartSaver First Aid The Heartsaver First Aid Course is designed to meet OSHA regulations and teach basic first aid skills such as stopping bleeding that can be seen.	3.00			X
	HeartSaver First Aid with CPR/AED Topics include First Aid Basics, Medical Emergencies, Injury Emergencies and Environmental Emergencies.	3.00			X


American Red Cross: Information about Workplace Training is available at www.redcross.org.

	Course Title	Contact Hrs	CET	CAT	Safety
	CPR - Adult Participants learn how to perform CPR and manage breathing and cardiac emergencies in adults. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	3.50			X
	Standard First Aid Participants learn first aid skills to treat a variety of injuries such as burns; head, neck and back injuries; and heat and cold related emergencies. Participants also learn to manage sudden illnesses, stroke, seizures, bites and poisoning. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	3.75			X
	CPR/AED – Adult Participants learn adult CPR and AED skills to respond to breathing and cardiac emergencies. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	4.50			X
	Standard First Aid with CPR - Adult Provides first aid and adult CPR training and explains the role of AEDs in emergency cardiac care. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	5.50			X
	Standard First Aid with CPR/AED - Adult American Red Cross' most comprehensive training course for employees, this session provides training in first aid, adult CPR and AED skills. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	6.50			X



Bailey Safety: For more information, contact Nancy Bailey (nancyb@baileytools.com).

	Course Title	Contact Hrs	CET	CAT	Safety
	Advanced Fall Protection	2.75			X
	Basic Fall Protection	1.25			X
	First Aid/CPR/AED (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	5.00			X
	OSHA 10 (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	10.00			X


Barrett Business Services Inc. (BBSI): For more information, contact Sheldon Altschuler, ARM (sheldon.altshuler@bbsihq.com).

	Course Title	Contact Hrs	CET	CAT	Safety
	Confined Space	2.00			X
	Fall Protection	2.00			X
	Lockout Tagout	2.00			X
	Material Handling	2.00			X






Bella Elevator LLC: For more information, contact Michael Wettstein (mwettstein@bellaelevator.com) at 309-689-8090.





	Course Title	Contact Hrs	CET	CAT	Safety
	Basic Installation & Troubleshooting 1.0 (Residential) This course is to train installation, service and troubleshooting of Bella's residential elevators. IGD (Inline Gear Drive), RH (Residential Hydro), WD (Winding Drum) units will be covered. Course topics include safety, code compliance issues, installation, trouble shooting, basic electronics and service. Classroom and hands on installation, wiring and operation of demonstration IGD and RH units will be included.	19.50	X	X	
	LULA & Residential Elevator Advanced Troubleshooting This course is to train installation, service and troubleshooting of Bella's LULA and residential elevators. Course topics include safety, code compliance issues, installation, trouble shooting, basic electronics and service. Classroom and hands on installation, wiring and operation of demonstration LULA and residential units will be included.	21.00	X	X	

Bruno Independent Living Aids: For more information, contact Ron Dries (ron.dries@bruno.com) or Bill Page (bill.page@bruno.com) at 262-953-5334


	Course Title	Contact Hrs	CET	CAT	Safety
	Accelerated Certified Training – Accessibility Training This 2-day in depth seminar will cover Stairlifts and Vertical Platform Lifts. Including Codes & Regulations, Site Prep, Installation, Service and Troubleshooting.	13.50		X	

Delaware Elevator: For more information, contact David Smarte at dsmarte@delawareelevator.com.



	Course Title	Contact Hrs	CET	CAT	Safety
	Entrance/GAL	8.00	X	X	
	Installing False Car Systems	8.00	X		
	Medic Basic First Aid (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	8.50			X
	OSHA - 10 (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	10.00			X
	OSHA 30 (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	30.00			X

	OSHA Mandated MSDS to SDS	2.00			X
	OSHA Review (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	7.00			X
	Rigging This course cover properly calculate working loads, utilize different configurations of lifting equipment, properly access site safety and inspection means.	4.00	X		
	Controllers, Drives, Schematics, Valves, Door Operators				
	➤ 1 st Day of Training (Group 1/Day 1 & Group 2/Day 2)	7.50	X		
	➤ 2 nd Day of Training (Group 1/Day 3 & Group 2/Day 9)	7.50	X		
	➤ 3 rd Day of Training (Group 1/Day 4 & Group 2/Day 8)	VARIED	X 7.50	X 5.75	
	➤ 4 th Day of Training (Group 1/Day 5 & Group 2/Day 10)	7.50	X		
	➤ 5 th Day of Training (Group 1/Day 6 & Group 2/Day 7)	7.50	X		



Donnelly & Associates, Inc. For more information, contact Joseph Donnelly at jjdped@comcast.net.

	Course Title	Contact Hrs	CET	CAT	Safety
	Elevator Education Program 2014	VARIED	X 10.00	X 9.00	


Draka Elevator Products For more information, contact Matt Jones at matt.jones2@prysmaingroup.com.

	Course Title	Contact Hrs	CET	CAT	Safety
	Technical Education and Solutions for Elevator Installation, Maintenance, Safety/Inspection and Upgrades	8.00	X 7.00	X 1.50	X 1.00
	Technical Education and Solutions for Elevator Installation, Maintenance, Safety/Inspection and Upgrades	4.00	X		


Eastern Elevator Service

	Course Title	Contact Hrs	CET	CAT	Safety
	Safety Training	1.00			X
	OSHA 10 Hour Outreach Training (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	10.00			X



Eastern Kentucky University OSHA Training Institute Education Center: For more information, contact Kathy Murphy at 859-622-6810 or kathy.murphy@eku.edu

	Course Title	Contact Hrs	CET	CAT	Safety
	Safety Training for Scaffolding This course is designed to aid participants in the understanding of the most common hazards associated with scaffolding. The program includes general requirements for scaffolds in regards to OSHA regulations as well as general safety. Major course topics include training requirements; fall protection; electrical hazards; overloading hazards and inspections criteria. The course presentation is based on the OSHA 1926.451 scaffolding standard. The course included lectures, PowerPoint presentations, group discussions, handouts, as well as hands on training. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	7.00			X


Elevator & Vertical Transportation Educational Assoc: For more information, contact Bradley D. Fox at 517-974-8704 or fsqei@att.net.

	Course Title	Contact Hrs	CET	CAT	Safety
	Elevator Code & Safety Review Course – 2015-16	10.00	7.75 hrs	5.75 hrs	2.00 hrs






Elevator Controls Corp: For more information, contact Francisco Ortiz at 916-482-1708 or Francisco.Ortiz@elevatorcontrols.com.







	Course Title	Contact Hrs	CET	CAT	Safety
	EC Factory Technical Training Elevator Controls Corporation Technical Training Seminar is designed to provide helpful tips and training for both basic and advanced troubleshooting and adjustment procedures on ECC Controller, the use of on board diagnostics for error isolation and microprocessor reprogramming, outlines equipment, integration and the pitfalls to avoid between drives, motors, and how to select compatible systems to eliminate installation and maintenance headaches. Details classroom lectures backed up with vital "hands on" instruction will give you the "instant recall", when it comes to the "real thing". Live "EC Controllers" provided on site for demonstration as well as practice. You will be joining other qualified elevator personnel for two days of intensive Factory Technical Training at Elevator Controls Sacramento California headquarters.	16.00	X		
	EC Factory Technical Training – Pixel Control System	16.00	X		
	Pixel control systems		8.00 hrs		
	Pixel motor drive unit applications and adjustment for elevator performance		8.00 hrs		

Elevator Equipment Corp: For more information, contact Abe Salehpour at 323-245-0147 or asalehpour@eecomail.com.


	Course Title	Contact Hrs	CET	CAT	Safety
	EECO Hydraulic Control Valve Training This course is designed for participants to have an opportunity to comprehend the design of a hydraulic elevator control valve, understand the operation of hydraulic elevator control valves, be able to adjust a UV-5AT control valve and handle common troubleshooting issues associated with a hydraulic elevator control valve.	4.00	X	X	

Elevator Safety and Technical Services (ESTS): For more information, contact Lee Rigby at 866-896-0401.



	Course Title	Contact Hrs	CET	CAT	Safety
	CET Continuing Education Workshop 2016 – Session I This four hour course will include the following: <ul style="list-style-type: none"> • Update on current local Statutes and Administrative Codes governing elevators. • Very brief overview of ASME A17.1 through A17.7, QEI-1, A18.1, and the applicable sections of the effective IBC and NFPA codes. • Presentation on emergency rescue of persons trapped in elevator for elevator personnel, following ASME A17.4, Guide for Emergency Personnel, 2015 Edition. • Presentation on changes to ASME A17.3, Safety Code for Existing Elevators and Escalators – 1996 to 2015 Editions. 	4.00	X	3.50 X	
	CET Continuing Education Workshop 2016 – Session II This four contact hour course is to provide continuing education for certified elevator technicians, which will include the following: <ul style="list-style-type: none"> • Review of changes in ASME A17.1, Safety Code for Elevators and Escalators, 2013 Edition. 	4.00	X		
	CET Continuing Education Workshop 2015 – Session II Review of changes in ASME A17.1, Safety Code for Elevators and Escalators, 2013 Edition.	4.00	X		
	CET Continuing Education Workshop 2015 – Session I This four hour course will include the following: <ul style="list-style-type: none"> • Update on current local Statutes and Administrative Codes governing elevators. • Very Brief description of ASME A17.1 through A17.7; Codes for Elevators and Escalators. • Testing procedures for platform lifts under A18.1 • Review of A17.6 requirements 	4.00	X	X	
	CET Continuing Education Workshop 2015 – Session II This four hour course will include the following and review of changes in ASME A17.1, Safety Code for Elevators and Escalators, 2013 Edition, Sections 8.7 through 8.11.	4.00	X		









	Course Title	Contact Hrs	CET	CAT	Safety
	CET Continuing Education Workshop 2012 This eight hour course will include the following: <ul style="list-style-type: none"> • 8.6 Maintenance, Repair, Replacement & Testing – A17.2 Guide • 2010 ADA Accessibility Guidelines • ASME A17.1 2010 Edition • Report Accidents & 10 Rules 	8.00	X	2.50 X	
	Elevator Safety Instruction 2016: Lockout/Tagout & Access and Working in Elevator Spaces The course will be based on gaining familiarity with the working around moving and electrical equipment based on guidelines in the Elevator Industry Field Employees' Safety Handbook (EIFESH), 2015 Edition, Sections 7 and 8. Reported accidents and incidents involving elevator technicians will be pointed out to make the point.	2.00			X
	Elevator Safety Instruction – 2014 The course will be based on gaining familiarity with the working around moving and electrical equipment based on guidelines in the Elevator Industry Field Employees' Safety Handbook (EIFESH). Reported accidents and incidents involving elevator technicians will be pointed out to make the point.	2.00			X
	Elevator Safety Instruction – 2011/2012 The course will be based on gaining familiarity with the working around moving and electrical equipment based on guidelines in the <i>Elevator Industry Field Employees' Safety Handbook</i> (EIFESH). Reported accidents and incidents involving elevator technicians will be pointed out to make the point.	2.00			X
	Elevator Safety Instruction – Electrical & Jumpers This class is designed to provide 2 contact hours of continuing education for elevator technicians holding a CET certification from NAEC, and to provide the specific requirement for a minimum of one hour education on the topic of "safety".	2.00			X
	Elevator Code Instruction - Interpretations Attendees will understand the purpose of the Interpretations, how to submit an Inquiry for an official interpretation, how to search the Interpretations for specific questions and how these interpretations have a direct impact on their day-to-day work in the elevator industry.	2.00	2.00 X	1.75 X	



Elevator U: For more information visit www.elevatoru.org.



	Course Title	Contact Hrs	CET	CAT	Safety
	2017 Annual Conference <ul style="list-style-type: none"> • Elevator Maintenance Performance Measures from a Business Perspective • Elevator/Personal Safety-Shepherd • Long Term Planning • Safe Elevator Operation with Serial I/O • Maintenance Control Planning • Hydraulic Cylinder Replacement • Efficient Elevators & Buildings vs. Emergency Power Generators • Facility Management Best Practices – Elevator Design Criteria & Specifications • Sealing Management for Hydraulic Cylinders • Hoist Ropes: Applications, Installation & Maintenance 	10.00	9.00 X	3.00 X	1.00 X

Elevator World: For enrollment information call 800-730-5093 or visit www.elevator-world.com


	Course Title	Contact Hrs	CET	CAT	Safety
	Maintenance Control Program and MRL Inspections CD-Rom based on the <i>Maintenance on New Equipment Designs</i> book will focus on <ul style="list-style-type: none"> • The difference involved in working safely on legacy equipment vs. MRLs • Elevator equipment code compliance • Maintenance of elevator components • Development and maintenance of current Maintenance Records • Providing wiring diagrams • Implementation of monthly Fire Service Tests 	1.50	X		
	Rope Dynamics CD-Rom that will focus on the effect of elevator hoist rope vibration on elevator ride quality and how these phenomena can be mitigated. The engineering principles and calculations used to determine where in the course of an elevator trip the rope vibration	1.00	X	X	

	Course Title	Contact Hrs	CET	CAT	Safety
	will have an adverse effect on the elevator ride quality and means to minimize and/or eliminate this effect will be presented.				
	Rope Traction: Theory & Practice DVD course that combines both a live speaker and a Power Point program developed by George Gibson.	3.00	X	X	
	Elevator Field Safety Course Course based on <i>The 2010 Elevator Industry Field Employee's Safety Handbook</i> , edited by the NEII Safety Committee and Safety Training for Elevator Service and Construction (video or DVD) by Zack McCain.	3.50			X
	Elevator Field Safety Exam #1 Course based on <i>The 2010 Elevator Industry Field Employee's Safety Handbook</i> , 1-4.	1.00			X
	Elevator Field Safety Exam #2 Course based on <i>The 2010 Elevator Industry Field Employee's Safety Handbook</i> , 5-7.	1.00			X
	Elevator Field Safety Exam #3 Course based on <i>The 2010 Elevator Industry Field Employee's Safety Handbook</i> , 8-11.	1.00			X
	Elevator Field Safety Exam #4 Course based on <i>The 2010 Elevator Industry Field Employee's Safety Handbook</i> , 12-21.	1.00			X
	The Maintenance Series Courses based on the <i>Elevator Maintenance Manual</i> by Zack McCain				
	Escalator Maintenance (Chpt 5)	1.50	X		
	General Elevator Maintenance (Chpt 2)	4.50	X	X	
	Hydraulic Elevator Maintenance (Chpt 4)	2.00	X	X	
	Traction Elevator Maintenance (Chpt 3)	3.50	X		
	Elevator World Articles Read the article & complete the quiz at the end of article or complete the test online.				
	Troubleshooting Elevators (April 2017)	1.00	X	X	
	Full-Cab A18.1/B355 Lifts (Feb 2017)	1.00	X	X	
	Thoughts on Escalator & Moving Walk Maintenance (Dec 2016)	1.00	X		
	Reading Electronic Schematics (Nov 2016)	1.00	X	X	
	Making Hydraulic Elevators Heat Resilient (Sept 2016)	1.00	X	X	
	Oscilloscopes Part Two (June 2016)	1.00	X	X	
	Oscilloscopes Part One (May 2016)	1.00	X	X	
	Servicing of Hydraulic Elevators After Flooding (April 2016)	1.00	X	X	
	Maintenance Control Program Changes (March 2016)	1.00	X		
	Digital & Analog Troubleshooting (February 2016)	1.00	X		
	Elevator Door Force (November 2015)	2.00	X		
	Working with JFETs (October 2015)	1.00	X	X	
	Motor Controllers (August 2015)	1.00	X	X	
	Occupant Evacuation Elevators (July 2015)	1.00	X		
	Lubrication & Elevator Ropes (June 2015)	1.00	X	X	
	Elevator Hoistway Doors (April 2015)	1.00	X	X	
	Integrated Circuits (March 2015)	1.00	X	X	
	Voltage Saps (Dips) (February 2015)	1.00	X	X	
	What is a Transistor? (December 2014)	1.00	X		
	MOSFETs (October 2014)	1.00	X	X	
	Hidden Details of Modernization (September 2014)	1.00	X		
	What is a Diode? (August 2014)	1.00	X	X	
	False Car (June 2014)	1.00	X		
	Common Misconceptions Regarding Elevator Traffic Simulations (April 2014)	1.00	X		
	Telescopic Jacks (Dec 2013)	1.00	X		
	Metal Raceways in Elevator Work (Aug 2013)	1.00	X		
	Energy-Efficient VVVF Hydraulic Lift Drive (June 2013)	1.00	X		
	Maintaining Elevators & Escalators in the Transit Environment (April 2013)	1.00	X		
	Wet Ropes Equal Dead Ropes (Mar 2013)	1.00	X		
	Elevator Motors for Elevators (Feb 2013)	1.00	X		
	Maintaining Elevators & Escalators in the Transit Environment (Dec 2012)	1.00	X		
	AECO Certification as Applied to a Wind-Turbine Tower Elevator (Oct 2012)	1.00	X		


	Course Title	Contact Hrs	CET	CAT	Safety
	LU/LA Elevators (August 2012)	1.00	X		
	Constructional Stretch & Hoist-Rope Tension (July 2012)	1.00	X		
	NEC Article 620: Elevators Part 2 (June 2012)	1.00	X	X	
	NEC Article 620: Elevators Part 1 (April 2012)	1.00	X	X	
	Freight Elevator Door Control (Feb 2012)	1.00	X		
	Elevator Drives, Power Quality and Energy Savings (Dec 2011)	1.00	X		
	Variable-Frequency Drive Systems for Hydraulic Elevators (Oct 2011)	1.00	X		
	Hydraulic Elevators – Configuring the Power Unit, Part II (Sept 2011)	1.00	X		
	Rope Dynamics (May 2011)	2.00	X		
	The Conflicting Roles of the Elevator Safety Code, LEED and ADA in Elevator Renovation (May 2011)	1.00	X		
	Electrically Assisted Braking Using DC Hoist Motors (Feb 2011)	2.00	X	X	
	The Application of Electromechanical Spring-Set Brakes in MRL Machines (Jan 2011)	1.00	X	X	
	Hydraulic Elevators - Configuring the Power Unit (Dec 2010)	1.00	X	X	
	Hydraulic Elevators: Importance of Oil Cleanliness (Nov 2010)	1.00	X	X	
	Safety and Buffer Testing without Weights (Sept 2010)	2.00	X	X	
	Elevator System with Multiple Cars in One Hoistway (Aug 2010)	2.00	X		
	Regenerative Elevator Drives: What, How and Why (June 2010)	1.00	X		
	Maintenance Control Program (May 2010)	2.00	X		
	Modern VVVF Drives (Feb 2010)	1.00	X	X	
	KEB F5 Elevator Drives: Startup, Adjust. & Troubleshooting PM Applications (Dec 2009)	2.00	X		
	Introduction to Permanent-Magnet Gearless Motors and Drive Control Systems (Nov 2009)	1.00	X	X	
	Steel Wire Ropes for Tractions Elevators, Part 3 (Sept 2009)	1.00	X	X	
	Steel Wire Ropes for Tractions Elevators, Part 2 (July 2009)	1.00	X	X	
	Steel Wire Ropes for Tractions Elevators, Part 1 (May 2009)	1.00	X	X	
	Elevator Hoistway Equipment: Mechanical & Structural Design, Part 2 (Feb 2009)	2.00	X	X	
	Improving Elevator Performance by Monitoring Elevator Cab Volume (Nov 2008)	1.00	X		
	Elevator Hoistway Equipment: Mechanical & Structural Design, Part 1 (Sept 2008)	2.00	X	X	
	Round Traveling Cable Installation <i>and</i> Compensating Cable with a Wider Loop for Improved Balance (June 2008)	1.00	X	X	
	Understanding Traction Hoist Ropes in Today's Elevator Installation (April 2008)	1.00	X	X	
	Installation and Operation of the Reynolds & Reynolds UVR Powervator® (Feb 2008)	1.00	X	X	
	The Perfect Drive” & “Get the Lead Out! (Dec 2007)	1.00	X		
	Improving Motor Efficiency in Constant Speed Applications (Oct 2007)	1.00	X	X	
	Elevator Hoisting: Maximizing Performance of Ropes in Existing <i>and</i> “Improved” High Demand-Installations (Aug 2007)	1.00	X	X	
	Replacing Motor-Generator Sets With Modern Static DC Drives (June 2007)	1.00	X		
	Variable Voltage Made Easy Using Print No. C-1469-A (April 2007)	3.00	X		
	Installation and Adjustment of the Hollister-Whitney Rope Gripper™ (Feb 2007)	1.00	X		
	North American Code & Standards	1.00	X		
	Maintenance on New Equipment Designs Course Series Is based on the <i>Maintenance on New Equipment Designs</i> book by John Koshak. The in-depth guide is designed for the service technician coming in contact with a wide range of new designs of elevator equipment including: Machine-room-less elevators, permanent magnet traction machines, friction governors, MRL blocking devices and much more. In addition, Koshak explains requirements of the Maintenance Control Program, codified in ASME A17.1, with steps that need to be taken in order to maintain compliance.	9.00	X		
	Educational Focus – Volume 1				
	Chapter 1: Elevator Controllers	2.00	X	X	
	Chapter 2 – Elevator Door Operators	2.00	X	X	
	Chapter 3 – Hydraulic Elevators	1.00	X	X	
	Chapter 4 – Dispatching Systems	1.00	X		
	Chapter 5 – Elevator Drive Systems & Chapter 12 – Elevator Communication	3.00	X	X	
	Chapter 6 – Door Protection Systems	1.00	X		
	Chapter 7 – Elevator Guide Rails	1.00	X	X	

	Course Title	Contact Hrs	CET	CAT	Safety
	Chapter 8 – Elevator Safeties and Governors	1.00	X	X	
	Chapter 9 – Elevator Car Enclosures	1.00	X	X	
	Chapter 10 – Elevator Hoisting Machines	1.00	X	X	
	Chapter 11 – Escalators	1.00	X		
	Chapter 14 – Elevator Suspension Systems	3.00	X	X	
	Chapter 15 – Testing Equipment	1.00	X		
	Chapter 16 – Elevator Entrances	1.00	X	X	
	Chapter 18 – Freight Elevator Doors	1.00	X		
	Educational Focus – Volume 2				
	Section 2.1 Chapters 1-3	3.00	X	X	
	Section 2.1 Chapters 4-7	3.00	X	X	
	Section 2.2 Chapters 1-2	2.00	X	X	
	Section 2.2 Chapters 3-5	2.00	X	X	
	Section 2.2 Chapters 6-7	2.00	X	X	
	Section 2.3 Chapters 1-3	2.00	X	X	
	Section 2.4 Chapter 1	2.00	X	X	
	Section 2.4 Chapters 2-3	3.00	X	X	
	Field Employee's Testing Manual This course is based on the book, <i>Field Employees' Elevator Testing Manual, 3rd Edition</i> and is a self-study course with a timed online exam.	3.00	X	X	


EnviroSafe: For more information, contact Pedro Gonzalez at (787) 726-6455 or envirosafe@bigplanet.com.

	Course Title	Contact Hrs	CET	CAT	Safety
	Safety Training This program is intended to build skills for recognizing and preventing hazards in the workplace. The training covers four key topics, which are: fall protection, electrical hazards, personal protective equipment and hand/power tools.	3.00			X



Envirosafety Confined Space Safety Equipment Inc: For more information, contact Lilian Yan at lyan@enrifosafety.ca.

	Course Title	Contact Hrs	CET	CAT	Safety
	Fall Protection This course is intended for any person that will be required to work at a height or where fall protection is necessary as per WorksafeBC Regulation, Part 11. This course combines both theory and practical training using current, approved fall protection equipment. The training includes instruction, demonstration hands-on and written exercises. Participants will use fall protection equipment, setup and work off of lifeline systems, and perform self-rescue from vertical lifelines. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the max will not be applied towards renewal)	7.00			X




ES Controls, LLC: For more information, contact Eric Appana at Eric@ESControlsllc.com.

	Course Title	Contact Hrs	CET	CAT	Safety
	Maintaining the SWIFT FUTURA (Generation One) Controller This course is designed to help maintenance mechanics, adjusters, supervisors install maintain the SWIFT FUTURA Generation One controller. This course will apply to the Traction and Hydro product lines.	7.00	X		





Fire Protection Education: For more information please visit the FPE Website at: www.FireProtectionEducation.com.

	Course Title	Contact Hrs	CET	CAT	Safety
	Interfacing Elevator Controls with Fire Alarm & Sprinkler System This class will discuss and clarify specific NFPA 72 (National Fire Alarm and Signaling Code) and NFPA 13 (Standard for the Installation of Sprinkler Systems) requirements associated with these elevators, both in buildings provided with "Building Fire Alarm Systems" and those without Specific NFPA 72, NFPA 13 and ASME A 17.1 code terms, such as Dedicated Function FA System for Elevator Recall and Supervisory, Phase-I Emergency Recall Operation, Phase-II In-Car Emergency Operation, Designated and Alternate Recall levels and Shunt-Trip Function will be discussed and clarified.	7.50	X		
	New Code Requirement for Fire Service Access Elevators (FSAE) & Occupant Evacuation Elevators (OEE) In high-rise buildings, elevators are extremely useful tools for firefighters to fight fires and rescue occupants. The main reason for developing the Fire Service Access Elevator (FSAE) was to provide firefighters with a safer and more efficient means to fight fires and rescue occupants in the upper floors of high-rise buildings. The FSAE was first required by the 2009-IBC for high-rise buildings over 120 feet in height. Occupant Evacuation Elevators were also introduced first in the 2009-IBC as an exception to the required third exit stairway for buildings over 420 feet in height. The OEE are intended to be used by building occupants to evacuate the building during fire emergencies. This class will discuss the specific code requirements for the FSAE and OEE including the IBC/CBC codes and NFPA standards from the AHJ/Enforcing Agency perspective.	7.50	X		



GAL Manufacturing Corp: For more information contact Peter Novak at peter@gal.com

	Course Title	Contact Hrs	CET	CAT	Safety
	Adjusting/Troubleshooting GALaxy Controllers Through discussion, lecture and practice, participants will focus on the installation, adjustment and troubleshooting of GALaxy Controllers.	8.00	X		
	Installation Procedures for GAL Door Equipment Attendees will be presented with a thorough overview of the installation process for GAL Door Equipment.	1.50	X	X	
	Understanding/Adjusting/Troubleshooting GALaxy Controllers Attendees will be presented with a thorough overview of issues surrounding installation and adjustment of GALaxy Controls.	1.50	X		




Garaventa Canada, Ltd: For more information contact Desmond Mullin at dmullin@garaventalift.com.

	Course Title	Contact Hrs	CET	CAT	Safety
	Artira, Level III Technical Training One-day seminar related to the installation, service and maintenance of Garaventa Artira lifts	8.0	X	X	
	Elvoron MR, Level III Technical Training One and half day seminar related to the installation, service and maintenance of Garaventa Elvoron MR lifts	11.5		X	
	Genesis/OPAL, Level III Technical Training One-day seminar related to the installation, service and maintenance of Garaventa Genesis and Genesis OPAL lifts	8.0	X	X	
	Xpress II, Level III Technical Training One-day seminar related to the installation, service and maintenance of Garaventa Xpress II lifts	8.0	X	X	





HandiCare Inc.: For more information, contact Graham Taylor at graham.taylor@handicare.com or 610-226-5260.


	Course Title	Contact Hrs	CET	CAT	Safety
	HandiCare Advanced Troubleshooting A one day course familiarizing attendees with advanced trouble shooting of all Handicare Accessibility products, and ASME 18.1/17.5 code awareness.	5.75	X	X	
	HandiCare Installation & Advanced Troubleshooting A three day course familiarizing attendees with the installation of all Handicare Accessibility products, Handicare curve surveys and drawings, advanced trouble shooting, and ASME 18.1/17.5 code awareness.	20.25	17.25 X	20.25 X	

Harmar Summit LLC: For more information, contact Suzan Mehalko at suzan.mehalko@harmar.com or 816-744-2413.






	Course Title	Contact Hrs	CET	CAT	Safety
	Incline Stairway Chairlifts This course is designed to provide skills with hands on training for product installation, troubleshooting and routine service maintenance of both residential and commercial Incline Stairway Chairlifts. This course provides proper code application of both residential and commercial.	6.50	X	X	
	Incline Platform Lifts This course is designed to provide skills with hands on training for product installation, troubleshooting and routine service maintenance for the residential Incline Platform Lift. This course provides proper code application for residential installation.	3.75	X	X	
	Vertical Platform Lifts This course is designed to provide skills with hands on training for product installation, troubleshooting and routine service maintenance of both residential and commercial Platform Lifts. This course provides proper code application of both residential and commercial.	10.25	X	X	

HB Training & Consulting (HBTC), LLC: For more information, contact Kevin Madison at kevin@hbtraining.com or 770-619-1669.





	Course Title	Contact Hrs	CET	CAT	Safety
	Confined Space Competent Person Class This 8 hour course is designed to meet your supervisors, foremen, estimators, and workers needs in confined space safety and the applicable OSHA standards. Introduction to OSHA ~ Review 29CFR Part 1910.134 ~ Review 29CFR Part 1910.146 ~ Review 29CFR Part 1910.147 ~ Review required PPE ~ Define the Confined Space "Team" ~ Review Confined Space "Team" Responsibility ~ Discuss Hazardous Atmospheres. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the max will not be applied towards renewal)	7.00			X
	Fall Protection Competent Person Class This 8 hour course is designed to meet your supervisors, foremen, estimators, and workers needs in fall protection safety and the applicable OSHA standards. Class comes with student manual and class card. Introduction to OSHA Standards ~ The "Duty" of the Employer Subpart "M" General Requirements ~ Review Standards Part 1926.500 ~ Review Standards Part 1926.501 ~ Review Standards Part 1926.502 ~ Review Standards Part 1926.503 ~ Personal Fall Arrest Systems ~ Demonstration of Fall Protection - PPE Develop and Maintain a Fall Protection Plan. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	7.00			X
	OSHA 10hr for Construction This 10 hour course is designed to meet your supervisors, foremen, estimators, and workers needs in Construction Safety and the required OSHA standards. Introduction to OSHA ~ Learn to use OSHA book ~ Identify and Control Hazards. All attendees will receive an OSHA book, a student training manual, and a laminated OSHA card. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	10.00			X
	OSHA 30hr for Construction This 3- 4 day, 30 hour, course is designed to meet your supervisors, foremen, estimators, and workers needs in Construction Safety and the required OSHA standards. Introduction to OSHA ~ An overview of all the subparts required by OSHA ~ Protective System requirements ~ Identify and Control Hazards ~ Managing safety in the field. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	30.00			X

	Scaffold Competent Person Class This 1 day, 8 hour course is designed to meet your supervisors, foremen, estimators and workers specific needs in scaffolding safety and the required OSHA standards. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	7.00			X
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Hub International Northeast: For more information, contact Guy Gioino at guy.gioino@hubinternational.com.

	Course Title	Contact Hrs	CET	CAT	Safety
	OSHA 10 Hour Safety Course This program covers Construction Safety, Electrical Hazards, Falls, Health Hazards and Hazard Communications, Personal Protective Equipment, Hand & Power Tools and Fire Protection and many other areas. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	6.00			X
	Safety Training - 2013 The 3-hour program is intended to build skills for recognizing and preventing hazards in the workplace. The training covers four key topics, which are: fall protection, electrical hazards, personal protective equipment and hand/power tools. This program will enable employees to better recognize safety hazards, understand how to control the identified hazards, and reduce the risk of workplace injuries.	3.00			X
	Safety Training - 2014 The training covers four key topics, which are: Hazard communication – Globally Harmonized System, confined spaces, and personal protective equipment. This program will enable employees to better recognize safety hazards, understand how to control the identified hazards, and reduce the risk of workplace injuries.	3.00			X
	Safety Training - 2015 The training covers three key topics, which are: Fall Protection, Lockout/Tagout and Personal Protective Equipment. This program will help enable participants to recognize safety hazards, understand how to control the identified hazards, and reduce the risk of workplace injuries.	3.00			X
	Safety Training - 2016 The 3-hour program is intended to build skills for recognizing and preventing hazards in the workplace. The training covers three key topics, which are: electrical safety, confined spaces, and personal protective equipment. This program will enable employees to better recognize safety hazards, understand how to control the identified hazards, and reduce the risk of workplace injuries.	3.00			X


Inclinor Company of America: For more information, contact Cindy Bernardo at cindy.bernardo@inclinor.com.

	Course Title	Contact Hrs	CET	CAT	Safety
	Residential Elevator Training (2015) The training will cover installation, maintenance and troubleshooting of the following: Cable Drum and Hydraulic elevator systems. MRL Overhead Cable Drum and MRL Geared Counterweighted elevator drive systems. The training will also cover the UC601 Universal Control System. The training will also cover installation, maintenance and troubleshooting of our VL – VPL equipment, Dumbwaiter and Homewaiter equipment.	29.75	27.0 X	27.0 X	
	Residential Elevator Training (4 day) This training program is to instruct how to install; service and trouble shoot Inclinor's residential elevators. Course topics include safety, service, installation, trouble shooting, basic electronics and code compliance issues.	29.25	X	X	
	Residential Elevator Training (3 day) This training program is to instruct how to install; service and trouble shoot Inclinor's residential elevators. Course topics include safety, service, installation, trouble shooting, basic electronics and code compliance issues.	22.5	X	X	
	Dumbwaiters & VPL Training This training program is to instruct how to install; service and trouble shoot Inclinor's dumbwaiters & vertical platform lifts. Course topics include safety, service, installation, trouble shooting, basic electronics and code compliance issues.	VARIOUS	5.75 X	6.75 X	


KEB America, Inc.: For more information, contact Tony Heiser at tony.heiser@kebameric.com

	Course Title	Contact Hrs	CET	CAT	Safety
	AC Motors - Overview An overview on the design of AC motors and operation, including the similarities between and difference between induction and permanent magnet motors.	0.50	X		
	KEB F5 Elevator Drive – Start Up Start up and adjustment of the KEB F5 Elevator Drive (v1.72), from default settings drive to fully automatic operation.	2.00	X		
	KEB F5 Elevator Drive – Troubleshooting An overview of typical symptoms and solutions to identify when troubleshooting, an overview of common errors and corresponding troubleshooting, and instruction on how to further troubleshoot drive hardware.	1.00	X		
	KEB F6 Line Regeneration - Overview An overview of the concepts behind of line regeneration.	0.25	X		
	KEB F6 Line Regeneration - Start Up & Troubleshooting An overview of the line regen system wiring, parameter adjustment and troubleshooting.	0.50	X		
	KEB Cobivis Software – Overview & Setup An overview of the drive and regen connection software. How to connect with a computer, how to change parameters, how to save uploads and perform downloads, how to operate the oscilloscope function to monitor and evaluate diagnostics.	0.25	X		









Kencor, Inc.

	Course Title	Contact Hrs	CET	CAT	Safety
	OSHA Safety Course (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	8.00			X


Kings III Communication: For more information, contact Dean Heasley at dheasley@kingsiii.com

	Course Title	Contact Hrs	CET	CAT	Safety
	Two Way Communication Codes & Requirements The course will help participants to understand the relevant codes and requirements for elevator emergency communication. Major course topics will include: How to test for elevator phone compliance; What the coded require; Common installation mistakes; Answering elevator phone calls; Phone line verification. Information included will be derived from ASME codes, ADA laws, and interviews with consultants and industry experiences.	2.00	X	X	


John W. Koshak: For more information, contact John Koshak at john@elvssl.com

	Course Title	Contact Hrs	CET	CAT	Safety
	ASME A17.3-2005 Training Course The 8 hour course will cover the code requirements of A17.3-2005 , Safety Code for Existing Elevators and Escalators.	8.00	X	X	
	ASME A17.1 Code Update & LU/LA Training Course The 8 hour course will cover the code requirements of A17.1 and LU/LA.	8.00	X		
	ASME A18.1 Code Update The 1 hour course will cover the code requirements of A18.1.	1.00	X	X	
	Code Education 2012 – A17.1/B44 The 8 hour course will cover the code requirements of A17.1/B44.	8.00	X		
	Code Education 2013 – A17.1/B44 Session will discuss the changes in A17.1 2010 and A17.1 2013 number in the hundreds. The class details many of the major changes and touches on the minor changes.	4.00	X		
	Hoistway Doors Force This course explains the design requirements A17.1 requires for Hoistway Doors and Entrances.	2.00	X	X	
	Horizontal Door Closing Force This course explains the door closing force requirements of A17.1/B44. It emphasizes the importance of compliance and how to adjust common types of door operator systems.	2.00	X	X	
	Solid State Motor Drive History & Theory Session will discuss basic electricity theory, magnet energy, and motor theory; motor control of elevators and evolution of solid state motor controllers.	4.00	X	X	


Magnetek: For more information, contact Tony Frey at tfrey@magnetek.com

	Course Title	Contact Hrs	CET	CAT	Safety
	Elevator Drive Technology Seminar Session covers the following topics: <ul style="list-style-type: none"> ▪ Current and new elevator drive technology. ▪ Making informed decisions when planning new or upgrading existing elevator installations. ▪ The latest in the state-of-the-art elevator drive technology. ▪ The advantages and disadvantages of this new technology. ▪ Elevator drive applications including power line harmonics, emergency generators, energy consumption and battery back-up systems. 	2.00	X		

Maxton Manufacturing: For more information, contact Irene Muller at irene@maxtonvalve.com


	Course Title	Contact Hrs	CET	CAT	Safety
	Maxton Hydraulic Control Valve Training Participants will gain a better understanding on how to determine the proper valve for the job; how variables such as temperature, contamination and pressure effect the control valve and overall elevator performance; proper maintenance practices; proper valve adjustment	4.00	X	X	

Medic First Aid: For more information, visit http://hsi.com/MEDIC_programs/




	Course Title	Contact Hrs	CET	CAT	Safety
	Basic CPR and First Aid for Adults Combined Adult CPR and First Aid training program designed specifically for the occupational first aid provider. This program helps employers meet OSHA and other federal and state regulatory requirements for training employees how to respond and care for medical emergencies at work. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	6.00			X

James Meyer Consulting, Inc.: For more information, contact James Meyer at meyerconsulting@verizon.net.


	Course Title	Contact Hrs	CET	CAT	Safety
	California Elevator Regulations Seminar Emphasis on Development of Regulations, Latest Adopted Elevator Regulations, Alterations of Existing Elevators (1 day seminar)	8.00	X	X	
	California Elevator Regulations Seminar as They Exist Today & Proposals for the Future Emphasis on Development of Regulations, Latest Adopted Conveyance Regulations, Special Focus on Limited Use/Limited Access Elevators & A18 Equipment (1 day seminar)	8.00	X	X	
	ASME A17.1 and A18.1, Latest Revisions A course designed to help elevator personnel strengthen their knowledge of and understand the latest revisions of elevator regulations as contained in the latest edition of ASME A17.1, and A18.1. Major course topics include: regulation development by ASME; latest A17.1 revisions; latest A18.1 revisions. (1 day seminar)	8.00	X	X	

	Latest Revisions to A17 Group of Standards & Latest Changes to A18 Standard with Focus on Escalators & Fire Service A course designed to help elevator personnel strengthen their knowledge of and understand the latest revisions of elevator regulations as contained in the latest edition of various ASME A17 Standards and the A18 Standard. Major course topics include: Latest A17.2 revisions; most recent A17 Interpretations; what's happening with ASME A17.4; an overview of the latest A18 Standard; what are the IBC elevator requirements. The course will focus on Firefighter's Emergency Operation and escalator inspections. (1 day)	8.00	8.0 X	0.5 X	
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Motion Control Engineering (MCE): For more information, contact Cyndi Hubbard at 916-463-9221 or Cyndi.hubbard@nidec-mce.com.




	Course Title	Contact Hrs	CET	CAT	Safety
	iControl Installation, Adjustment & Troubleshooting A 2-day seminar designed to educate elevator consultants, mechanics, adjusters and maintenance technicians to effectively set up, install and troubleshoot MCE's iControl elevator control systems. Major course topics include installation; adjustment; best practices; diagnostics; system troubleshooting; component design and failure analysis. The course material is based on the installation manuals for the iDC and iAC control products used for geared and gearless traction machine applications. The training course includes both lecture and hands-on instruction with real controllers in a lab environment.	15.00	X		
	Motion 2000/4000 – Installation, Maintenance & Troubleshooting A 2-day seminar designed to educate elevator consultants, mechanics, adjusters and maintenance technicians to effectively set up, install and troubleshoot MCE's Motion 2000/4000 elevator control systems. Major course topics include installation; adjustment; best practices; diagnostics; system troubleshooting; component design and failure analysis. The course material is based on the installation manuals for the Motion 2000/4000 control products used for geared and gearless traction machine applications. The training course includes both lecture and hands-on instruction with real controllers in a laboratory environment.	14.50	X		
	MCE Legacy Equipment: IMC/PTC/VVMC/HMC - Maintenance & Troubleshooting A 2-day seminar designed to educate elevator consultants, mechanics, adjusters and maintenance technicians to effectively set up, install and troubleshoot MCE's Legacy elevator control systems. Major course topics include installation; adjustment; best practices; diagnostics; system troubleshooting; component design and failure analysis. The course material is based on the installation manuals for the IMC (AC & DC), VVMC 1000 (AC & DC), HMC 1000 (hydraulic) control products used for geared and gearless traction machine applications. The training course includes both lecture and hands-on instruction with real controllers in a laboratory environment.	14.00	X		
















Mowrey Elevator Co: For more information, contact Dan Redmond at 850-526-4111 or dan@mowreyelevator.com.


	Course Title	Contact Hrs	CET	CAT	Safety
	Continuing Education Course, MTC-003: This course has been designed to keep elevator mechanics current & informed so they can safely & competently perform their duties. It contains technical and safety instruction that is relevant to elevator construction, alteration, modification, repair & maintenance. It reviews current practices and provides an overview of recent changes to the various codes and regulations.	8.00	X 6 hrs	X 6 hrs	X 2 hrs

NAESA International: For information call 360-292-4968 or visit www.naesai.org



***Only live webinars are approved, the * items do NOT include on-demand.**

	Course Title	Contact Hrs	CET	CAT	Safety
	A17.6 Standard for Elevator Suspension Webinar* Discusses the history behind and creation of ASME A17.6. Presents each chapter in detail, Stranded Carbon, Aramid Fiber and Noncircular elastomeric coated steel; suspension means. The intent is to understand and apply; Terminology, Material, Properties & Tolerances, Testing & Compliance along with Replacement Criteria for all three methods of suspension means. The class also addresses the changes in ASME A17.1-2010 through current as it supports and references A17.6.	5.00	X 4.5 hrs	X 3.5 hrs	X 0.5 hr
	Acceptance Inspection & Maintenance of Hydraulic Elevators Webinar* This webinar will cover Part 3 and Sections 8.10.3 and 8.6.5 of ASME A17.1 – 2013 /CSA B44 –13, along with rationale for associated requirements. Inspectors' tools including the revised Hydraulic Elevator Inspection Checklist (ASME A17.2 – 2014) and Zack McCain's <i>Inspection Handbook, 6th Edition</i> , will be cited.	5.00	X		
	Car Enclosures Webinar* A detailed discussion of the requirements found in ASME A17.1-2013/CSA B44-13, Section 2.14. Requirements for passenger and freight elevators is reviewed. The attendee should have a better understanding of current code requirements for elevators upon completion.	5.00	X	X	





	Course Title	Contact Hrs	CET	CAT	Safety
	Escalators & Moving Walks Webinar* An updated version of the requirements for escalators and moving walks based on ASME A17.1-2013/CSA B44-13, Section 6.1 and 6.2. The attendee should gain a clearer understanding of the code requirements for these two conveyances. Excerpts from the Step/Skirt DVD will also be included.	5.00	X		
	Firefighters Emergency Operations Webinar* A detailed discussion of the one of the more complex sections of ASME A17.1-2013/CSA B44-13, Section 2.27.3 – 2.27.9. Attendees will gain a better understanding of these requirements and learn how best to recognize proper operation of FEO. A discussion of how ASME A17.2-2012 can be used to facilitate inspection of FEO.	5.00	X		
	How to Use A17.2 Inspection Guide Webinar* This is an interactive course of study which explains the history of the inspector guide, then proceeds to address the eleven segments of ASME A17.2 starting with Part 1, inside Elevator Car to Part 11 MRLs. As we discuss and learn the 11 parts special attention is given to the corresponding aspects of ASME A17.1-8.6, 8.10 and 8.11. The objective of the course is to help the student better understand how to apply and discover the interactions between A17.2 and A17.1 & A17.6. Also within the presentation are discussions about the mandatory (inspection guides) and non-mandatory (checklists) appendices.	5.00	X 4.25 hrs		X 0.5 hr
	Inspection Methods Webinar* This webinar will cover in detail the various types of inspections, resources required, and the expectations from different perspectives. The class will visit report writing, recognizing violations, and how to communicate citations as well as a focus on what to inspect with practical exercises included.	5.00	X		
	Machine Rooms, Elevator Doors, Door Locks Webinar* This webinar will cover in detail Sections 2.7 and 2.8 of the ASME A17.1/CSA B44 2013 and include rationale for the associated requirements.	5.00	X	X	
	Maintenance, Repair, Replacement & Testing Webinar* This webinar will cover in detail Section 8.6 of the ASME A17.1/CSA B44 2013 to establish a clear understanding of the makeup of the Maintenance Control Program. A relationship will be established regarding the relationship to repair and replacement as well as testing for both electric and hydraulic elevators including other types of equipment. A PowerPoint presentation will also include a set of quiz questions that students will participate in. Results will be shared immediately providing feedback to the participants. Reference materials include A17.1/B44 2013 and as well as the A17.1/B44 Handbook.	5.00	X	X	
	NFPA 13 & NFPA 72 Webinar* A detailed discussion of how these two standards relate to A17.1/B44. NFPA 13 is the Standard for the Installation of Sprinkler Systems and NFPA 72 is the National Fire Alarm and Signaling Code. The attendee will learn how these standards interface with elevator installations.	5.00	X		
	NFPA 70 Elevator Installations Webinar* This presentation will focus on how the electrical and elevator code partner in order to provide a code-legal installation of elevator equipment. NFPA 70, otherwise known as the National Electrical Code, has been a companion of A17.1 and now A17.1/B44 for many decades. The discussion will illustrate requirements from NFPA 70-2014 and ASME A17.1-2013/CSA B44-13.	5.00	X	X	
	Occupancy Evacuation Operation Webinar* One of the newest set of requirements to enter into A17.1/B44, this discussion will attempt to clarify how OEO is intended to operate. It will also include excerpts from NFPA 72 and the 2015 IBC as it relates to OEO. The attendee should gain a better understanding of elevator operation and also note that there is still some work that may need to be done with code language to further clarify requirements.	5.00	X		
	A17.3 Code Update Seminar Seminars are being offered on various dates and locations.	8.00	X		
	NAESA Cont Ed for Certified Competent Conveyance Mechanics An overview of CCR Title 8, Subchapter 6, Elevator Safety Orders, Section 3000.	6.00	X	X	
	NAESA QEI Training Program Seminars are being offered on various dates and locations.	32.00	X	X	
	NAESA 2017 Central Region Spring Workshop March 24 – 25, 2017 Des Plaines, IL	10.00	X 9 hrs	X 2.5 hrs	X 1 hr
	NAESA 2017 Eastern Region Spring Workshop March 31 – April 1, 2017 Ocean City, MD	10.00	X 8 hrs	X 2 hrs	X 2 hrs
	NAESA 2017 Western Region Spring Workshop April 21 – 22, 2017 Las Vegas, NV	10.00	X 9 hrs	X 1 hr	X 1 hr


	NAESA 2016/2017 Florida Code Update Seminar Sessions approved are as follows:				
	➤ Introduction & Course Perspective	0.25	X		
	➤ EIFESHB – 2015	0.25	X		
	➤ FL Codes & Statutes	2.00	X		
	➤ ASME A17.1b	0.50	X		
	➤ ASME A17.1	3.25	X		
	➤ ASME A17.2	1.50	X	X	
	➤ ASME A17.3	0.75	X		
	➤ NEC NFPA 70	0.75	X	X	
	➤ ASME A18.1	0.75	X	X	

OSHA Outreach Training Programs: For more information, visit www.outreachtrainers.org

	Course Title	Contact Hrs	CET	CAT	Safety
	OSHA 10 Construction The 10-hour Construction Industry Outreach Training Program is intended to provide an entry level construction workers general awareness on recognizing and preventing hazards on a construction site. The training covers a variety of construction safety and health hazards which a worker may encounter at a construction site. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	10.00			X
	OSHA 30 Construction The 30-hour Construction Outreach Training Program is intended to provide a variety of training to workers with some safety responsibility. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	30.00			X


Performance Learning Solution: For more information, contact James Ganley at jganley@plstrains.com or 217-423-3541

	Course Title	Contact Hrs	CET	CAT	Safety
	Basic First Aid, CPR & AED for Adults American Red Cross developed & sponsored program trains participants to recognize and care for life-threatening respiratory or cardiac emergencies in adults and provides the knowledge and skills needed to care for injury or sudden illness until professional medical help arrives. This comprehensive course meets training guidelines for first aid programs established by OSHA. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	8.00			X
	Bloodborne Pathogens Training Program trains and provides individual with an understanding of the intent of the bloodborne pathogens regulation issued by OSHA; how bloodborne pathogens are spread; how to help prevent exposure incidents by following work practice controls, using engineering controls and personal protective equipment, practicing good personal hygiene and properly cleaning and disinfecting equipment and supplies; and to recognize, report and follow up on employee exposures to infectious materials. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	2.00			X
	Confined Space Entry & Non-entry Rescue This course is designed to provide program participants with the knowledge to effectively recognize and evaluate those hazards associated with permit and non-permit required confined spaces. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	4.00			X
	Confined Space Rescue This course is specifically designed for those persons responsible for making entry rescues within confined spaces. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	8.00			X


	Electrical Safety and NFPA 70E This one day course defines the requirements for work practices that workers should use to avoid injury from a release of energy when performing tasks involving electricity. This course enable participants to prevent or minimize exposure to widely recognized electrical hazards as well as to better understand the importance of the relationship between OSHA	8.00			X
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	and NFPA 70E. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)				
	Fall Protection Training To help reduce the significant number of workplace injuries and fatalities related to falling on the job, this program instructs participants on acceptable fall protection practices and safety measures.	2.00			X
	OSHA 10-hour General Industry Outreach This course will introduce participants to a variety of OSHA policies, procedures and standards as well as general industry safety and health principles covered by OSHA. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	10.00			X


Praxiom Risk Management: For more information, contact John Conrad, Jr. at jconrad@praxiom-rm.com or 888-350-7729.

	Course Title	Contact Hrs	CET	CAT	Safety
	Hazard Communication	1.00			X


Premier Elevator: For more information, contact Keith Evans at keithevan@premier-elevator.com.

	Course Title	Contact Hrs	CET	CAT	Safety
	Control of Hazardous Energy	1.00			X



QEI Services: For more information, contact Brain Ralli at bralli@qeiservicws.com or 888-651-9209

	Course Title	Contact Hrs	CET	CAT	Safety
	Preparation for QEI Certification	13.00	X		


Safe Elevator Corp: For more information, email safe.elevcorp@yahoo.com or call 772-223-9387


	Course Title	Contact Hrs	CET	CAT	Safety
	Elevator Education Workshop This course includes the following topics: Code Books Content • A17.1 Section 8 • A17.1 Data Plate & Test Tag Requirements A17.1 Periodic Test Requirements • Safety • New Technology • Local Ordinances •A17.1a - 2008/CSA B44A- 2008 • Suspension Ropes	VARIED	X 9 hrs	X 3 hrs	X 1 hr

Safety Resources LLC: For more information, Charles Northam at ctnortham@safetyresourcesllc.com or 410-742-7233.



	Course Title	Contact Hrs	CET	CAT	Safety
	Crane Rigging & Signaling This course reviews the applicable OSHA regulations on material handling. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	7.00			X
	Medic First Aid This course is a fundamental training program in emergency care. CPR and other important emergency care skills are combined into a single course. (PLEASE NOTE: A maximum of 3 contact hrs in safety will be accepted. All safety hrs in excess of the maximum will not be applied towards renewal)	8.00			X

Savaria: For more information, Todd Parker at tparker@savaria.com or 800-661-5112.



	Course Title	Contact Hrs	CET	CAT	Safety
	Advance Elevator Installation and Troubleshooting The course is designed to help elevator technicians strengthen their installation skills and troubleshooting skills on the Savaria products. These products included both the eclipse and infinity residential elevators, micro-6 system and Orion LU/LA Commercial Elevator.	28.00	X	X	
	➤ SL-1000/Stairfriend		7.0	7.0	
	➤ Delta IPI/Omega IPL		7.0	7.0	
	➤ Multilift/Commander & Anny 1802C Operators		7.0	7.0	
	➤ V1504/Telecab		7.0	7.0	

	Installation and Troubleshooting The course is designed to help accessibility technicians strengthen their installation skills and troubleshooting skills on the Savaria products. These products included both public and residential straight stairway chairlifts, curved stairway chairlifts, public and residential vertical platform lifts and inclined platform lifts, and residential elevators.	26.00	X	X	
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Edgar Schroll: For more information, contact Edgar Schroll at ewschroll@gmail.com

	Course Title	Contact Hrs	CET	CAT	Safety
	Electron Flow & Solid State Devices The session focus is the relationship between electron flow and solid state devices.	VARIED	X 5.5 hr	X 4.0 hr	X 1.5 hr
	The Relationship Between Resistance and Current The session focus is the relationship between resistance & current and electrical safety.	VARIED	X 6.5 hrs		X 1.5 hr








Smartrise Engineering Inc.: For more information, contact training@smartrise.us.

	Course Title	Contact Hrs	CET	CAT	Safety
	Smartrise Engineering Technical Training – 8 hour Attendees will learn about the Smartrise Elevator Control System architecture as well as how to install, troubleshoot, test and maintain the system at this one-day seminar.	8.00	X		
	Smartrise Engineering Technical Training – 4 hour Attendees will learn about the Smartrise Elevator Control System architecture as well as how to install, troubleshoot, test and maintain the system at this one-day seminar.	4.00	X		




Stannah Starlifts, Inc: For more information, contact Ryan Schneider at ryan_schneider@stannah.com or 508-520-7878.



	Course Title	Contact Hrs	CET	CAT	Safety
	Installing Servicing and Faultfinding the Stannah 420 Hinge By the end of the course students should be able to: <ul style="list-style-type: none"> • Install the new 420 hinged rail • Carry out carriage preparation • Carry out servicing schedule • Fault find on the 420 • Carry out repair work as detailed in the service work methods 	7.00		X	
	Installing Servicing and Faultfinding the Stannah 260 By the end of the course students should be able to: <ul style="list-style-type: none"> • Install the 260 Stairlift • Carry out servicing schedule • Fault find on Model 260 Stairlift • Carry out repair work as detailed in the service work methods 	7.00		X	
	Installing Servicing and Faultfinding the Stannah 420 By the end of the course students should be able to: <ul style="list-style-type: none"> • Install the new 420 standard rail • Have a basic understanding of schematics, and electrical meter usage. • Carry out routine servicing on the 420 • Fault find on the 420 • Carry out repair work as detailed in the service work methods 	7.00		X	
	Installing Servicing and Faultfinding the Stannah 600 Retractable Rail By the end of the course students should be able to: <ul style="list-style-type: none"> • Install the new 600 Retractable rail • Carry out carriage preparation • Carry out servicing schedule • Fault find on the 600 • Carry out repair work as detailed in the service work methods 	6.75	X	X	
	Installing Servicing and Faultfinding the Stannah 600 Rail By the end of the course students should be able to: <ul style="list-style-type: none"> • Install the new 600 Standard rail • Have a basic understanding of schematics & electrical meter usage • Carry out routine servicing on the 600 Stairlift • Fault find on the 600 • Carry out repair work as detailed in the service work methods 	6.75	X	X	

Symmetry Elevating Solutions: For more information, contact 877.375.1428 or customerservice@symmetryelevator.com.


	Course Title	Contact Hrs	CET	CAT	Safety
	3x5 Rule & Upcoming Change The course will be based on gaining familiarity with the requirements in Section 5.3 of ASME A17.1-2013/CSA B44-13 <i>Safety Code for Elevators and Escalators</i> for private residence elevators and more specifically on the recent emphasis and changes regarding the door clearances. The presentation will focus on the changes in the next edition as well as those areas that have the greatest impact on the project coordination and installation of products covered by these publications.	1.00	X	X	
	Code for Technicians: A18.1 - 2014 The course will be based on gaining familiarity with ASME A18.1-2014 <i>Safety Standard for Platform Lifts and Stairway Chairlifts</i> including changes from previous editions. The presentation will focus on the changes in the new edition as well as those areas that have the greatest impact on the project coordination and installation of products covered by this standard.	1.00	X	X	
	LU/LA Elevator Factory Training The LULA-Limited Use Limited Application Elevator Factory Training course addresses the concept of A.17.1.5.2 and other related codes along with proper protocol for installation and programming of LULA elevator parts. Lectures, hand-outs, and group discussions will be used to help aid in the presentation and format of the course.	4.00	X	X	
	Master Technician Forum The course will be based on gaining familiarity with the installations of Residential Elevators, Vertical Platform Lifts and Limited Use/Limited Application Elevators. Topics discussed in this course will include: problems encountered during installations, understanding schematics per product, connecting schematics with the problems to solve the issue, service side overview, the cutoff point and checklists for installation, tricks of the trade and field quality reports.	4.00	X	X	
	Mechanics Guide to Safety Inspections & How to Use ASME Code The course will be based on gaining familiarity with Section 5.3 of ASME A17.1-2013/CSA B44-13 <i>Safety Code for Elevators and Escalators</i> for private residence elevators and the new Inspection Guidelines for Private Residence Elevators in ASME A17.2-2012 <i>Guide for Inspection of Elevators, Escalators, and Moving Walks</i> . The presentation will focus on the changes in the new edition as well as those areas that have the greatest impact on the project coordination and installation of products covered by these publications.	1.00	X	X	
	Residential Elevator Hoistway Safety The course will be based on gaining familiarity with Safety signage, signals and barricades, as well as, material handling, storage use and disposal. Safety topics discussed in this course will include: proper use and safety of scaffolding, proper use of ladders in stairways, and the safety of helicopters, elevators, conveyors and hoists. This course will also focus on discussing the proper protocol for Electrical Lockout and Tagout.	1.00			X
	Residential Elevators, LU/LA Elevators & Vertical Platform Product Training This course is designed to help authorized dealer technicians strengthen their skills with Symmetry accessibility products and gain knowledge of recent advancements and improvements within the accessibility products field. These products include vertical platform lifts, residential elevators, and limited use/limited application (LU/LA) elevators. This course is conducted with hands-on product training and lectures.	4.00	X	X	

Postal Service: For more information visit www.nced.com or call (866) 438-6233.


	Course Title	Contact Hrs	CET	CAT	Safety
	Elevator Maintenance Electric Traction This course is designed to familiarize the student with electric traction elevator system components and related A17.1 Code requirements for the purpose of safely performing routine maintenance and repairs.	63.75	X		
	Elevator Maintenance Hydraulic This course is designed to familiarize the student with hydraulic elevator system components and related A17.1 Code requirements for the purpose of safely performing routine maintenance and repairs.	63.75	X	X	
	Elevator Maintenance for Freight Doors A five day class covering the installation, inspection, adjustment, maintenance and troubleshooting of door systems on freight elevators. Included in the course are lessons covering the different types of vertically sliding freight doors, the components that make up the door system and applicable ASME A17.1 code requirements.	36.25	X		

	Troubleshooting Relay Logic Electric Traction Elevators This course is designed to provide the student with a systematic method for diagnosing system malfunctions and analyzing control circuitry to efficiently locate trouble source.	29.0	X	X	
	Troubleshooting Relay Logic Hydraulic Elevators This course is designed to provide the student with a systematic method for diagnosing system malfunctions and analyzing control circuitry to efficiently locate trouble source.	29.0	X	X	



Vertical Express: For more information, contact Robert Bowman at robert.bowman@thyssenkrupp.com

	Course Title	Contact Hrs	CET	CAT	Safety
	ICON Control – Adjustment and Service This course is designed to introduce the student to the theory of operation of the ICON control system manufactured by ThyssenKrupp Elevator Manufacturing USA. In addition, the student will learn the proper installation and commissioning techniques as well as service instruction (troubleshooting and repair).	16.00	X		


160016Victaulic: For more information, contact Dennis Love at dlove@victaulic.com or 410-340-3806

	Course Title	Contact Hrs	CET	CAT	Safety
	Grooved Mechanical Piping For Hydraulic Elevators This session is an overview and hands on demonstration of the different types of grooved couplings (flexible and rigid), proper gasket selection, correct installation techniques for Victaulic grooved pipe couplings, and roll grooving for pipe.	2.00	X		


Virginia Controls: For more information, contact Tom Reamsnyder at tom.reamsnyder@vacontrols.com or 804-225-5530

	Course Title	Contact Hrs	CET	CAT	Safety
	MVFCL Traction Elevator Controller Training The objective of the session is to provide an understanding of the components of the MVFCL controller and the related machine and field devices connect to it that form an elevator system. To provide a procedure for installing and troubleshooting an MVFCL controller in the most efficient manner by using the schematics and manuals supplied.	7.00	X		
	Safe Elevator Operation with Serial I/O Serial I/O control methods applied to elevator operation has the ability to simplify and speed elevator installation. Done correctly, these methods can meet the expectations of the public and our industry for elevator safety and reliability. This presentation seeks to identify some of the boundaries contained in the elevator safety code and some of the limits within the technology itself, that the elevator specialist may encounter in the application of Serial I/O.	1.00	X		

Waupaca Elevator Company: For more information, contact Scott DuQuaine at 800-238-8739 or sduquaine@waupacaelevator.com.

	Course Title	Contact Hrs	CET	CAT	Safety
	Service and Installation Technical Training Principles and methods of installing & maintaining Waupaca Elevator residential elevators and dumbwaiters are taught in this course. Course topics include safety, service, installation, troubleshooting, basic hydraulics, basic electronics and code compliance. The course combines a classroom and lab approach to facilitate the application of topics presented and discussed.	19.00	X	X	

Wurtec Inc.: For more information, contact Rob Wurth at Rob.Wurth@Wurtec.com.

	Course Title	Contact Hrs	CET	CAT	Safety
	False Car System This session will discuss the false car, preparation, installation, final tips and checks and maintenance & repair.	8.00	X		