Week 1 Monday		
Monday – Wk1 8:30am – 9:00am	 Building Walkthrough Logistics Short Walkthrough/Week Preview 	
Monday – Wk1 9:00am – 11:30am	 Energized Testing Point Point Discussion Class Material 	
Monday – Wk1 11:30am – 12:30pm	Lunch/Team Building	
Monday – Wk1 12:30pm – 1:30pm	Energized Testing Power Point Wrap up	
Monday – Wk1 1:30pm – 3:00pm	 Energized Testing Hands On Training Lab Exercise Open Panels 	
Monday – Wk1 3:00pm – 5:00pm	Final Quiz / Wrap Up	
	Tuesday	
Tuesday – Wk1 8:00am – 10:00am	 Drawing Recognition One Line & Three Line Diagrams 	
Tuesday – Wk1 10:00am – 11:30am	 Data Collection Recognize and interpret device numbers, ratings such as those for transformers, circuit breakers, disconnects, switches, etc. as defined by IEEE and NEMA Nameplate Data 	
Tuesday – Wk1 11:30am – 12:30pm	Lunch/Team Building	

Tuesday – Wk1	Data Collection - Continued
12:30pm – 1:00pm	Recognize and interpret device numbers, ratings such as those for
	transformers, circuit breakers, disconnects, switches, etc. as defined
	by IEEE and NEMA
	Nameplate Data
Tuesday – Wk1	Lockout / Tagout
1:00pm – 5:00pm	 LOTO Systems – Equipment Isolations
	Live Dead Live
	Wednesday
Wednesday – Wk1	Behavior of Insulation Material While Under Electrical Stress
8:00am – 11:30am	 Constructions Characteristics of Insulation Systems
	 Insulation-Resistance Test Sets and Tests: Operational
	Principles, Basic Constructions, Applications, and
	Methods
	Evaluating Insulation-Resistance Tests
	 Dielectric Test Sets – AC and DC
	 Evaluate AC and DC voltage with Stand Tests
	Low Resistance Test Sets
	Evaluate Primary Circuit Resistance Tests
	 Evaluate Terminal-To-Terminal Resistance Tests
Wednesday – Wk1 11:30am – 12:30pm	Lunch/Team Building
Wednesday – Wk1	Lab Exercise
12:30pm – 5:00pm	Participants are organized into laboratory teams and each team
	performs an activity at each work station in sequence.
	Secondary Current Injection Testing of an RMS Digitrip using an
	Amptector/Digitrip Tester
	 Insulation Resistance Tests for a Dry-Type Transformer
	Insulation Resistance Tests for an Air-Magnetic Power Circuit Breaker
	Primary Circuit Resistance Measurements for a Medium-Voltage
	Power Circuit Breaker
	Vacuum-Integrity and Voltage Withstand Tests for a Vacuum-
	Interrupter Circuit Breaker
	Transformer Turns Ratio Test

	Thursday
Thursday – Wk1 8:00am – 10:00am	Fundamental Operational Principles Standardized Terminal Markings
	 Dry-Type Transformers: Construction Characteristics
	Dry-Type Transformers: Inspections and Tests
	Liquid-Immersed Transformers: Construction Characteristics
	Liquid-Immersed Transformers: Inspections and Tests
	 Insulation Resistance Measurements Power-Factor of Insulation Measurements using Doble M4000
	 Transformer Winding, Bulk Bashings, Condenser Bushings
	Turns Ratio Tests
	 Inspection of Gas Pressure, Oil Temperature, Winding Temperature, Liquid Level, Primary and Secondary Pressure-Relief Devices, Cooling Fans, Oil Boosters
	Interpreting Gas-in-Oil Analysis Reports
Thursday – Wk1	Current Injection Tests – Trip Unit and Relay Testing
10:00am – 11:30am	Exercises
	Current Injection Tests: Purpose and Applications
	Current injection test sets: Operational Principles and Construction Turner
	 Construction Types Time-Overcurrent Characteristics of Circuits Breakers having
	solid-state trip units
	Time-Overcurrent Characters of Electro-mechanical Protective
	Relays
	Evaluating Current Injection Tests
Thursday – Wk1 11:30am – 12:30pm	Lunch/Team Building
Thursday – Wk1	Surge Arrestors, Capacitors and Maintenance
12:30pm – 1:30pm	
Thursday – Wk1 1:30pm 2:30pm	Grounding Awareness
1:30pm – 2:30pm	Applying Grounds Sizing and Inspecting Crounds
	Sizing and Inspecting Grounds
Thursday – Wk1	Grounding Continued / Neutrals
2:30pm – 5:00pm	

Friday		
Friday – Wk1 8:00am – 11:30am Friday – Wk1 11:30am – 12:30pm	 Switchgear – Training Room Classifications for Switchgear and Switchgear Components Nameplate Ratings for Circuit Breakers and Switchgear Assemblies Maintenance of Switchgear Enclosures and Enclosure Components Maintenance of Power Circuit Breakers Molded-Case Circuit Breaker Maintenance Lunch/Team Building 	
Friday – Wk1 12:30pm – 5:00pm	 Switchgear - Laboratory Exercises Classifications for Switchgear and Switchgear Components participants are organized into laboratory teams and each team performs an activity at each work station in sequence: Inspection of Magnum DS Circuit Breaker and Test of Digitrip 1150+ Magnum DS LV Power Circuit Breaker - Measurements of Insulation Resistance and Primary Circuit Resistance Verifying the Performance of a Zone Interlocking Scheme In a Magnum DS Assembly Functional Testing of Arc-Flash Reduction Maintenance Mode – Digitrip 520MC Magnum DS Switchgear, Circuit Breaker Racking, Hoisting, Phase- Displacement Checks at the Bus Tie Interlocks and Controls – VacClad-W Switchgear Door Interlocks of an Arc-Resistant VC-W Assembly, MR2 Motorized Remote Racking Device, Closure Measurement Testing and Inspecting Medium-Voltage Control-Power and Instrument Transformers Inspection of Ampgard Medium Voltage, FVNR, Type SJA Inspection of an MSB Switch 	

Week 2		
Monday		
Monday – Wk2 8:00am – 12:00pm	Ultrasound Training	
1:00 - 4:30pm	TEGGPro Software Training	
	Tuesday thru Thursday	
Tuesday,Wednesday,	Infrared ANST Level 1	
Thursday, Wednesday, Thursday 8:00am – 5:00pm		
Friday		
Friday – Wk2 8:00am – 2:00pm	NFPA70E Chapter 1 – Lockout/Tagout 70B Arc Flash Labels/Calculations PPE Selection	