

Advanced Underground Practical Training

Course	Description	Duration
Poly-Concentric Cable Splicing and Terminating (Medium Voltage up to 34.5kV)	Cable and Splice Theory/ Heat and Cold Shrink Application/ Pre-molded Application/ Hand Applied Tape Splice Application/ Cable Identification-Phasing-Remote Cutting/ Acceptance Testing (DC) - Minimum of 4 Students	30 Hours
High Voltage Poly-Concentric Cable Splicing and Terminating Prerequisite: Successful Completion of Medium Voltage Course	Basics of High Voltage Cable Splicing/ Cable Preparation Techniques and Common Work Practices/ Cable Accessory Applications and Breakdown - Minimum of 4 Students	30 Hours
PILC (Lead) to Poly-Concentric Cable Splicing (Trifurcating)	Heat and Cold Shrink (upon request) Application/ Hand Applied Tape Splice/ Cable Identification-Phasing-Remote Cutting on PILC and Poly - Minimum of 4 Students	30 Hours
PILC (Lead) Splicing	Cable and Splice Theory/ Cable Identification-Phasing-Remote Cutting/ Hand Applied Tape Splice/ 'Top Man' Preparation and Responsibilities/ Splicing Components Preparation and Setup/ Hot Cap/ End Seal/ 1 Conductor and 3 Conductor PILC Splicing - Minimum of 4 Students	90 Hours Split into Separate Weeks Upon Request
Network Systems	Vault Equipment and Cable Configurations, Standards and Installation/ Network Vault Monitoring (Installation and Control Wiring of Devices)/ Protector Testing, Troubleshooting and Maintenance/ Protector Retrofits/ Protector Relay Settings and Basics/ Proper Coverup for Energized Secondary Work/ Secondary Construction and Services/ Spot Checks and Switching Basics/ Vault and Manhole Inspections/ Dewatering Compliance of Underground Structures/ Transformer and HV Switch Oil Sampling/ Dissolved Gas Analysis Awareness - Minimum of 3 Students	40 Hours Split into Separate Weeks Upon Request



Underground Residential Distribution (URD)	Systems Configuration and Awareness/ Equipment and Cable Configurations, Standards and Installation/ Cable Termination and Pre-mold Splicing/ Transformer and Cable Troubleshooting/ Cable Identification-Phasing-Remote Cutting - Minimum of 3 Students	30 Hours
Underground Structure Inspections and Maintenance	Proper Setup and Entering of Confined Space/ Checklist of Electrical and Structural Hazards to Identify/ Proper Methods of Maintenance, Cleaning/ Biological Hazards and Proper Mitigation/ Vault and Manhole Mapping - Minimum of 6 Students	10 Hours
Underground Systems Awareness	Designed for Employee with Little Underground Experience (Office, Safety, Novice Groundman)/ A Hands-on Approach to Most Aspects of Underground Electrical Work and Systems/ Hand Applied Tape Splice/ URD Basics (Install to Basic Switching)/ Lead Wiping (Cable End Seal)/ Cable Pulling Configurations and Proper Equipment Setup/ Dewatering of Structures/ Overview of Proper Manhole and Vault Inspections - Minimum of 4 Students	20 Hours
Cable Proofing (Acceptance)/ Fault Finding	VLF(AC), DC (Hi-pot, Thumping)/ Equipment and System Breakdown/ Proper Setup of Equipment/ Proper System Connections/ Proper Employee and Public Safety/ Findings and Data Procedures - Minimum of 6 Students	10 Hours
Rigging and Lifting	Rigging and Signalman Standards with Certification of Completion and Competency/ Cable Pulling Mechanics, Devices, and Equipment Setup - Minimum of 6 Students	10 Hours
Qualification Package	Archon Energy Will Qualify Your Underground Workforce Based Upon Safety, Quality, and Best Work Practices/ Training may be Recommended or Required/ Written and Practical Testing Required from All Involved Employees for Competence and Certification	Yearly



Support Package	Customizable Package - Must Include a Mix of Compliance and Practical Training Courses/ Archon Trains all Desired Courses Over a Year at Predetermined Dates to a Set Amount of Students/ Yearly Price with a Large Price Reduction Based Upon Number of Courses, Students and Duration of Contract	Yearly
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All course-related materials and tooling are to be provided by the client. Materials and tooling may be purchased through Archon Energy and delivered to the training site prior to training.

Additional travel-related costs are in addition to all courses.

Student enrollment requires proof of applicable OSHA compliance training. If a student does not meet the OSHA compliance requirements, Archon Energy may train the student per the client's request.

The minimum student per course requirements must be met or monetary equivalent agreement.

Training courses may be discounted based upon Practical and Compliance bundling, larger student quantities or enrollment in Archon Energy's yearly Support Package.

Archon Energy's certificates of competency, qualification, and safety/compliance are course based and are not lifetime. Any manufacturer certification obtained also has a set duration of qualification and may require re-certification, potentially re-training. Please contact us about our re-certification process and standards.