

DAY 1
FUNDAMENTALS & MANUFACTURING

| TITLE | COURSE | SECTION |
|---|----------|---------|
| ACPA Then and Now | Course 1 | 1.1 |
| Pipe & Soil Fundamentals | Course 2 | 2.1 |
| Design Fundamentals | | 2.2 |
| Pipe Materials (Plastic, RCP, Metal) | Course 3 | 3.1 |
| Concrete Pipe Ingredients | | 3.2 |
| Manufacturing Methods: Batching and Reinforcing | Course 4 | 4.1 |
| Manufacturing Methods: Wetcast, Drycast, Curing | | 4.2 |
| Product Testing: Quality Control | Course 5 | 5.1 |

DAY 2
BOX CULVERT AND PRE-INSTALLATION INSPECTION

| TITLE | COURSE | SECTION |
|--|-----------|---------|
| Box Culvert Fundamentals and Installation | Course 6a | 6.1 |
| Box Culvert Fundamentals and Installation | | 6.2 |
| Box Culvert End Sections and Special Precast Options | Course 6b | 6.3 |
| Accelerated Precast Construction (APC) | | 6.4 |
| Pre-Installation Inspection: Inspection Milestones | Course 7 | 7.1 |
| Pre-Installation Inspection: Onsite Inspection | | 7.2 |
| Pipe Repair | Course 8 | 8.1 |

DAY 3
INSTALLTION & POST INSTALLATION INSPECTION

| TITLE | COURSE | SECTION |
|---|------------|---------|
| Installation Fundamentals: Pipe Fundamentals and Soil Basics | Course 9a | 9.1 |
| Installation Fundamentals: Introduction to Trenches | | 9.2 |
| Standard Installations: Excavation, Foundation, & Bedding | Course 9b | 9.3 |
| Standard Installations: Placing, Joining, and Backfill | | 9.4 |
| Post Installation Inspection: Introduction | Course 10a | 10.1 |
| Post Installation Inspection: Understanding Cracks | | 10.2 |
| Post Installation Inspection: Tools, Processes and Evaluation | Course 10b | 10.3 |

DAY 4
PIPE MATERIAL SELECTION & DESIGN CONSIDERATIONS

| TITLE | COURSE | SECTION |
|-------------------|------------|---------|
| Resiliency | Course 11a | 11.1 |
| Sustainability | | 11.2 |
| Durability | Course 11b | 11.3 |
| Hydraulics | Course 11c | 11.4 |
| Structural Design | Course 12 | 12.1 |