



# Plastics Pipe Institute

PPI is the major North American manufacturers trade association of advocacy and education for plastics use in pipe, conduit and infrastructure solutions.

The **mission** of the Plastics Pipe Institute is to advance the acceptance and use of plastic pipe systems through research, education, technical expertise and advocacy.

# Plastics Pipe Institute



**Building & Construction**



**Power &  
Communications**



**Drainage**



**Energy Piping Systems**



**Municipal & Industrial**

# Power & Communications Division



**Power &  
Communications**

**Mission:** To expand knowledge of the uses and benefits of HDPE conduit for Power and Communications applications.

Focus is on HDPE conduit for outside plant applications: aerial and buried power transmission, broadband, FTTH, CaTV, SCADA, ITS, etc.

## Strategic Objective

- *Aim to deliver what the industry needs*
- *Answer - What does industry need?*



**Power &  
Communications**

**Who Are We?  
What do we do?**



# Manufacturer Supported:



Power &  
Communications

- HDPE Conduit
- Equipment
- Materials



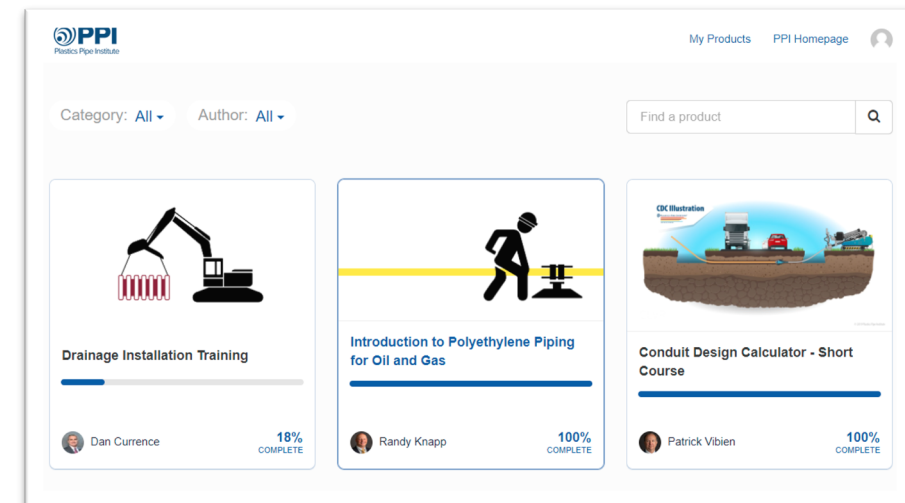
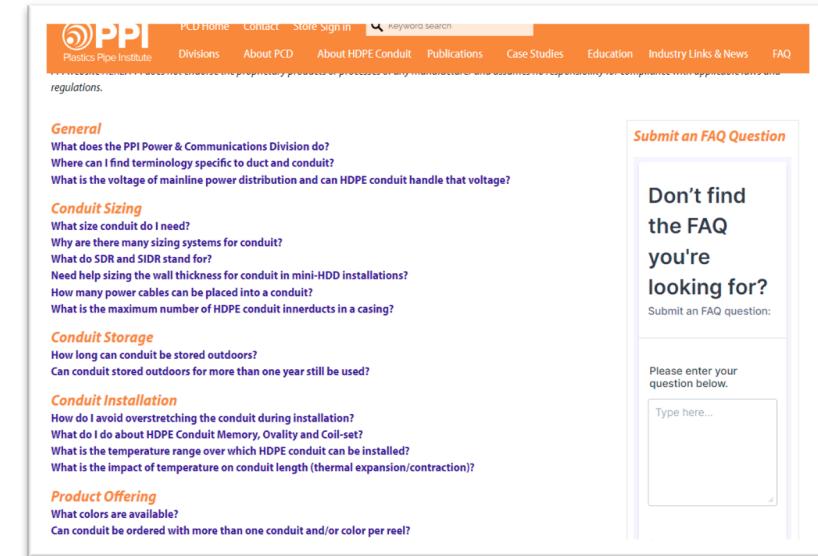
Support the industry to use HDPE Conduit correctly

- Industry Outreach
- Codes & Standards
- Research & Development
- Tools
- Publications



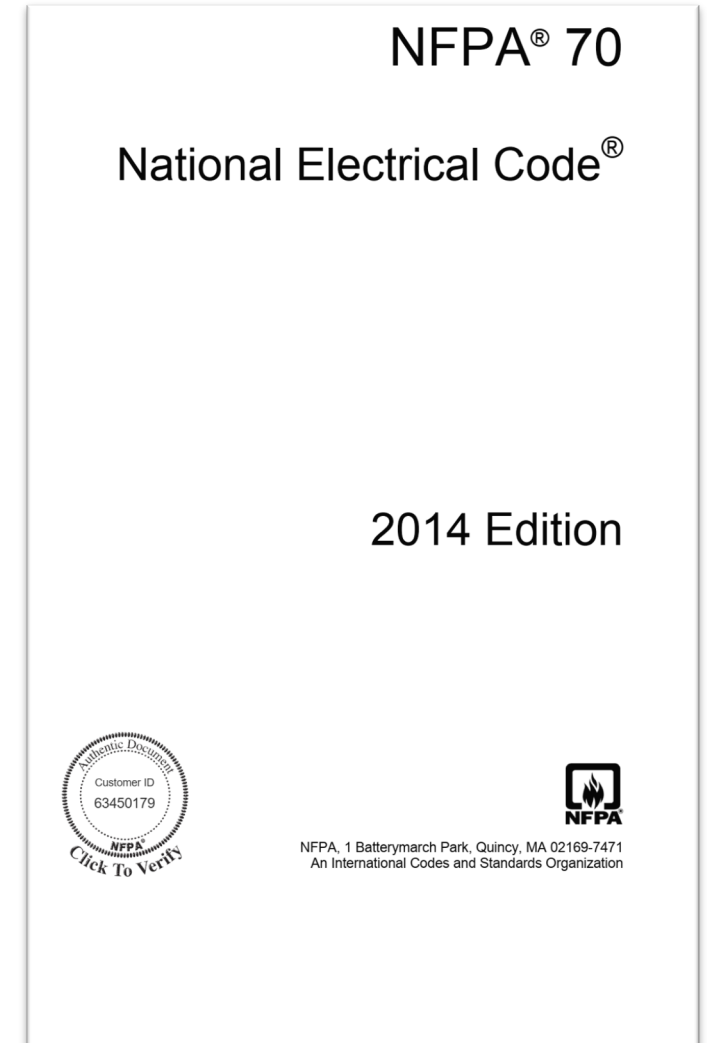
## Industry Outreach and Support

- Updated Website FAQ Page [PCD FAQs \(plasticpipe.org\)](https://plasticpipe.org/PCD-FAQs)
  - Answers common questions
  - Directs you to resources
  - Submit questions directly to PPI
  - Access subject matter experts
- Online Learning
  - PPI eLearn™ Platform (<https://elearn.plasticpipe.org/>)
  - *How to use the mini-HDD Design Calculator*
- Webinars



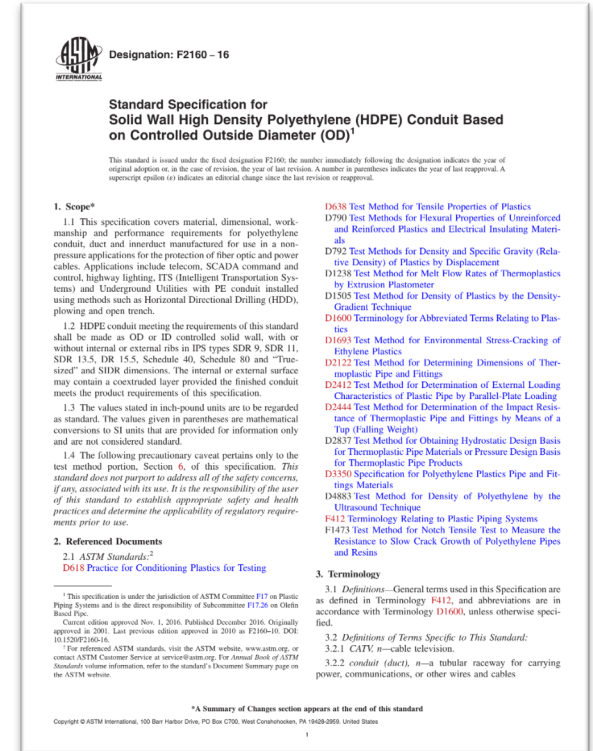
## Active in the Codes

- 2023 NEC Code Change
  - Prohibits Heat and Butt fusion
  - PPI working to reject change



## Simplifying the landscape

- **Aligning Standards –**
  - Materials, dimensions and performance
  - UL 651A & UL 1990 – *Under revision*
  - NEMA TC-7 & TCB-4 – *Revised 2021*
  - ASTM F2160 & D3485 – *Under revision*
  - CSA C22.2 No. 327
- **TN-50 *Guide to Specifying HDPE Conduit***
- **MS-5 *Model Specification for HDPE Solid Wall Conduit***

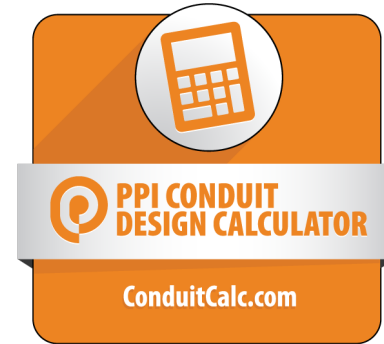


## R & D - Selected Projects

- Allow recycled HDPE to be used without jeopardizing product performance
- Studies to prove long term performance – 100+ years

## Tools for the Industry

- *Mini-HDD Wall Thickness Calculator (web calculator, S-6)*
  - *Input your route information, get the recommended conduit wall type*
- *Safe Pull Strength Calculation (TN-63)*
  - *Tables of maximum pull strength by conduit size and wall type*
- *HDPE Conduit & Duct Handling Guide (TN-58)*
  - *Worker safety when handling & installing conduit*



## Select Publications

- PPI Handbook – *Chapter 14 on Duct & Conduit*
- TN-50 *Guide to Specifying HDPE Conduit*
- TN-58 *HDPE Conduit & Duct Handling Guide*
- TN-61 *Conduit Ovality and Coil-set*
- *Micro Trenching & Micro-ducts*
- *Joining of HDPE Conduit*
- *Conduit for High Voltage Power*

} In Development

***Free to  
download***

## Strategic Objective

- *Deliver what the industry needs*
- *Answer - What does industry need?*

## Contact Us

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**PPI Home Page** ([www.plasticpipe.org](http://www.plasticpipe.org))

**PPI PCD Home Page** ([www.plasticpipe.org/PowerCommunications](http://www.plasticpipe.org/PowerCommunications))

**PPI eLearn™** (<https://elearn.plasticpipe.org/>)

