



Course Topics

- ❑ History of Philadelphia Infrastructure
- ❑ PA One Call Notifications
- ❑ Utility Coordination
- ❑ CAD Drafting & 3D Modeling
- ❑ Route & Topographic Surveys
- ❑ Philadelphia City Plans
- ❑ Highway Supervisor's Plans
- ❑ Interpreting Water, Sewer & Stormwater Plans
- ❑ Interpreting Gas, Electric, & Telecom Plans
- ❑ Google Workspace

Rodriguez University, a division of Rodriguez, has partnered with Hopeworks and PowerCorpsPHL to design and implement a workforce development program geared towards careers in civil engineering and land surveying that do not require a college degree. Currently, Rodriguez University offers "**Introduction to Infrastructure**", an 14-week (100+ hours) series of interactive learning experiences designed to introduce basic but vital concepts, ignite student's interest in the built world around us, and equip them with the skills needed to enter the job market.

Each week, new topics are introduced to the class that relate to careers in infrastructure. The program begins with a deep dive into the history of Philadelphia's underground infrastructure and transportation systems. Students are also taught how to utilize technology such as Google Workspace for project management and Trimble Sketchup for 2D computer drafting and 3D modeling.

By the end of the program, students have gained knowledge in engineering scale, utility plan interpretation, field data collection, stormwater systems, GIS, and various other skills in preparation for obtaining an internship or permanent position.

