



Module 1 - Intro to PNK

Module 2.1 - Power

Module 2.2 - PoE / Crimping Cables

Module 3.1 - Networking Basics

Module 3.2 - Networking Basics / Router Function

Module 3.3 - Networking Basics / Firmware & Configuration

Module 4.1 - Local Server

Module 4.2 - Local Server: Set Up

Module 4.3 - Local Server: Community Design

Module 5.1 - Wireless Basics

Module 5.2 - Wireless Networks

Module 6.1 - PNK Build: Prepare and Organize Inventory

Module 6.2 - PNK Build: Prepare the Case / Power

Module 6.3 - PNK Build: Networking Gear (Router)

Module 6.4 - PNK Build: Configure the Server

Module 6.5 - PNK Build: Unifi Controller / Adopt the APs

Module 6.6 - PNK Build: Install/Cable the Equipment

Module 7 - Test & Deploy

Module 8.1 - Governance

Module 8.2 - Resiliency

# Module 1 - Intro to PNK

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## Summary

1. What is a PNK
2. Objective:
  - a. *Participants will understand what a Portable Network Kit (PNK) is*
  - b. *Participants will be able to identify the necessary parts to build a working PNK*
  - c. *Participants will explore scenarios in which a portable network kit can facilitate community resilience*
3. Time Allotment: 60 minutes

## Learning Sequence

- a. *Idea - Kits, Internet, Networks, Ownership (10min)*
- b. *Facts - What is a PNK? / PNK Vocab / Parts (15mins)*
- c. *Activity - Let's Draw a PNK! / Let's Draw a Network! (20mins)*
- d. *Ownership - Present your Network Drawing / Next Steps (15mins)*

## Materials & Resources

- *Pen / Paper for each participant*
- *Anatomy of a PNK PDF or Slides*
- *Basic PNK components (router, server, antenna, cables, powerstrip)*
- *Internet connection*
- *WiFi enabled device (preferably a cellphone and a laptop)*

## Glossary

- Router, Access Point, Server, Raspberry Pi, Local Network, Power, Ethernet