

## Cisco CCNA (200-301)

### Episode Title: Describing PoE Concepts and Contexts

Learner Objective: Describe PoE concepts and uses

Description: You will learn what PoE is, and why it's useful and how it works at a basic level. Also the terminology used to describe PoE generically.

#### Questions:

##### Q: What is PoE and why is it important?

provides power copper conductors of network cable.

reduces the reliance upon an additional power source for devices that normally require a power adapter.

##### Q: How is the power supplied if not through a power adapter?

We'll use a little PoE terminology here too. The power will be provided through a PSE (power sourcing equipment) which is a PoE switch or a PoE injector.

These switches have power supplied to supply each port with a certain amount of voltage for the devices that in PoE we call (PDs--powered devices)

##### H: What if a device doesn't need the power?

There's a process to getting power sent to the device. If the PSE is a PoE switch then the switch will send pulse a device. If the device replies back to it. Then they will negotiate the power level using CDP (Cisco Discovery Protocol). The ones that don't, won't.

--example picture of PoE--PSE and PD.

#### Endnotes, External References, etc.

- Objective: 1.3c
- Exam 200-301 exam objectives