Model for Professional Installer Certification

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This report lays out the high level hierarchy/model for Certified Professional Installer (CPI) process, to include:

- Starts with accreditation/training standards based on Part 96 and industry requirements,
- Overall training process and standards,
- Roles and responsibilities – focused on CPI, not owner,
- Certification issuance,
- Accountability, issue management and discipline,
- Keeping up to date with standards as they evolve.

This report does NOT address specifics. This is a generalized document to act as a basis for further work.
Definitions

Accreditation Standard

- Standard defining how a Training Program Administrator can be accredited to run a Certified Professional Installer (CPI) Training Program
- Includes a curriculum standard defining the requirements necessary for trainees to be certified as a Professional Installer. This includes CBRS and Part 96 information, definitions of CPI parameters needed, obligations on CPIs, etc.
- Includes a requirement for an objective certification test to be administered by a program administrator as part of the CPI training program. Passing this test is a prerequisite for an individual to be considered a Certified Professional Installer.

Accrediting Body

- Entity that accredits an Administrator to offer a CPI Training Program based on the Accreditation Standard

Training Program Administrator

- Entity such as a Network Equipment Operator, an equipment vendor, a SAS operators or a 3rd party training organization that develops a Certified Professional Installer (CPI) Training Program, gains accreditation, administers objective certification test and maintains certification records.

Certified Professional Installer (CPI) Training Program

- Mandatory training/curriculum required by the CPI Training Program Administrator as a prerequisite for taking the objective certification test.
CPI Training Program Accreditation Standard Development Process

Part 96 Rules | Industry Requirements
---|---
WinnForum CPI Training Program Accreditation Standard Development

CPI Accreditation Standard

Accrediting Body

Published standard for open approval process
Accrediting Body

Approval and ongoing accreditation of training programs.

CPI Training Program Administrator

Training programs may be developed (subject to the CPI accreditation standard) and administered by

- Network operators
- Equipment vendors
- SAS Administrators
- Third-party training organizations
- Others

CPI Accreditation Standard

Programs submitted for accreditation

Records on participating programs
Common portable credentialing process
Maintains global database of current professional installers

CPI Training Program:
- Curriculum
- Test
- Certification

Accrediting Body
Professional Installer Training and Certification Process

Curriculum
(possibly including demonstrated experience)

Objective certification test

CPI Training Program Administrator –
Part 96 and Industry Requirements Training
(maintains records on program participation,
continuing education, contact information,
certification status for trainees)

Certified Professional Installers

Portable credential identified with an individual CPI

Other optional modules with non-
Part 96 or vendor-specific information
(e.g. SAS-specific requirements, RF
basics, technology-specific information)

Training, certification, continuing education of CPIs (required for new standard releases).
Recertification of CPIs (fixed periodic requirement).
Example Elements of the CPI Training Program Curriculum and Test

The Accreditation Standard’s defined “core curriculum” could include:

• Importance of the Professional Installer role in the CBRS ecosystem.
• Structure of the CBRS band (incumbent users, PAL users, and GAA users).
• Examples of CBSD devices. (Category A and B).
• Impacts of CBSDs on other users of the band, including incumbent users.
• Interference protection responsibilities of the SAS.
• Radio characteristics of harmful interference.
• The lifecycle of a CBSD, the role of the CPI.
• CBSD registration parameters, their measurement and reporting to the SAS.
• Transfer of responsibility for a CBSD from one Professional Installer to another.
• The responsibility of a CPI to maintain registration with the training program.
• Methods by which Professional Installer data is checked for accuracy by other parties.
• The range of disciplinary actions which can occur if there are inaccuracies in data provided by Professional Installers.
Certified Professional Installer

The owner (who may be a CPI) is responsible for engaging a CPI upon the need for a change in CBSD registration parameters.

Portable credential identified with an individual CPI

CBSD parameters provided during each required registration process

SAS

Records CBSD Registration Parameters along with the unique identity of the CPI providing them.

Generally speaking, the last CPI to touch the CBSD certifies all the data.
1. Submitted by e.g. CBRS licensees, incumbents

2. SAS determines there is a problem with CPI-supplied data

3. Identify the program and CPI based on credential associated with erroneous data

4. Notification to training program administrator of an issue with specific professional installer

5. Administer any retraining or decertification, following due process, required by the accredited disciplinary standard

6. If normal process fails to resolve issues

Courts: handle e.g. CFAA or other ToS violations