



All in-person SAPT courses are scheduled by waitlist demand and instructor availability.

Currently, SAPT Technology Courses are not CEU credit approved.

SAPT Stacked Technology Certificates

A “stacked” certificate system represents increasing skill levels that a person acquires over time. Each certificate is a building block to the next level. Each certificate includes 2-4 courses that a student must satisfy and/or complete.

- Satisfy indicates that the student demonstrated competency surpassing the coursework of a given certificate through an assessment or prior learning credit.

Examples:

- The student completed technology coursework as an apprentice in Block Training, and receives prior learning credit for specific topics, courses or a foundational certificate.
- The student had comparable technology training or experience and demonstrates competency through an assessment.

“Complete” indicates that the student enrolled and completed the series of SAPT Technology classes to earn the certificate. This can include prerequisite coursework not listed in this booklet.

Technology Course Assessment

An initial assessment will be required for most individuals who want to begin the SAPT Stacked Certificates sequence. This helps SAPT start the continuing education student in the appropriate coursework based on his or her skill level.

Apprentices in Block Training will be given an optional* assessment to measure success, and based on their score, SAPT will confer the Certificate of Applied Field Technology.

**If an apprentice does not pass the Block Training assessment but wishes to earn the certificate or take any advanced detailing courses, he or she may repeat the appropriate level of applied field technology classes offered in continuing education.*

The Assessment Measurements:

- Level of proficiency with computer navigation, MS Office, and Windows Explorer
- Level of proficiency with drafting skills
- Level of proficiency in Bluebeam, Navis or Revit

Certificates by Level & Prerequisites

SAPT Certificate of Applied Field Technology

Prerequisite:

- Technology Skill Assessment

This holder of this certificate has demonstrated fundamental skills used to communicate with detailers, other trades, contractors or customers in the field. It does not infer competency in detailing complex projects or the ability to work independently.

Virtual Design & Construction Seminar

SAPT Virtual Design & Construction Seminar

Prerequisite:

- SAPT Certificate of Applied Field Technology

This seminar reviews the expectations, technology-specific skills, and scope of work in gaining higher-level skills or pursuing technology-based occupations. It is a prerequisite to enrolling in the next two stacked certificate sequences unless prior learning credit is granted.

SAPT Certificate of Intermediate Field Technology

SAPT Certificate of Intermediate Field Technology

Prerequisites:

- SAPT Certificate of Applied Field Technology
- Virtual Design & Construction Seminar

The holder of this certificate has gained applicable REVIT skills, as well as supervisory skills, to use technology in making field-based decisions and interacting with internal and external customers.

SAPT Certificate in Essential Detailing

Prerequisites:

- SAPT Certificate of Applied Field Technology
- Virtual Design & Construction Seminar
- SAPT Certificate of Intermediate Field Technology

The holder of this certificate has gained a foundation to apply both technology and management skills in an entry-level Detailer capacity. With additional company-relevant experience as a detailer gained over time, the individual will be able to increasingly work independently on projects, and eventually, lead detailing teams.

Intermediate Technology Course Descriptions

Virtual Design & Construction Seminar

Duration: 8 hours

Materials: None

Fees: None

This short seminar will introduce the student to utilizing REVIT in a formalized career path. The individual will gain an understanding of the scope of project management in detailing, as well as the work conditions. The course will help the individual determine if the pathway is right for him or her before pursuing the Advance Field Technology Certificate. This seminar will be offered as an elective to 4th Year Plumbers and Steamfitters. The Apprentice must have successfully completed all equivalent content to receive credit.

Intermediate Field Technology I: Job Planning & VDC

Duration: 36 hours

Materials: None

Fees: None

This course integrates job planning into a virtual environment. Units include industry evolution from hand drawings to three dimensional modeling, design stages of a construction project, and use of documentation and coordination in a VDC platform. Additionally, students will construct a building using VDC. Job Planning content from Block Training, a previous SAPT transcript showing Job Planning course completion or comparable work experience documented by a supervisor are prerequisites to taking this course.

Intermediate Technology II: Core Revit

Duration: 36 hours

Materials: None

Fees: None

This course will cover content from the UA Core Revit curriculum. The learner will be introduced to Revit as a tool for Building Information Modeling. The student will become familiar with the user interface, learn the difference between BIM and CAD methods, learn family types, route design content, create and manipulate schedules, utilize linked models, and create drawings and other deliverables.

Intermediate Technology III: Leadership & Supervision for Journeymen (AKA UA Foreman Course)

Duration: 30 hours

Materials: None

Fees: D.I.S.C Assessment

This class will review the regulations/code, UA Standards of Excellence, and common supervisory skills needed to successfully manage people and projects. Communication, conflict resolution, evaluation, feedback and discipline will be included. Leadership content from Block Training, a previous SAPT transcript showing UA Foreman course completion, or comparable work experience documented by a supervisor will be accepted in lieu of taking this course.

Intermediate Technology IV: Revit Piping

Duration: 36 hours

Materials: None

Fees: None

This course will cover content from the UA Core Revit curriculum. The learner will build on Revit skills gained in Revit Core. The student will set up project templates, align model locations for linked model integration, route more complex systems, synchronize between local and central models, create custom parameters, build complex schedules with calculated values, work with fabrication parts, and learn modeling efficiencies.