

COURSE NAME	Ascent Programming Certification
FORMAT	Instructor-led training in a combined classroom and lab environment; may be conducted in-person or virtually
DURATION	Five consecutive days
SCHEDULE	Monday-Thursday 8:00am to 5:00pm with one hour for lunch and periodic breaks. Friday 8:00am to 1:00pm. The exam on Friday is required in order to receive a certification of completion. No exceptions will be granted.
ASSESSMENT	Comprehensive written examination

## AUDIENCE

This course is intended for building automation and control system engineers and programmers. A thorough understanding of building automation concepts is required. Exposure to basic DDC and 2-years of industry experience is recommended. The Ascent Programming Certification course is the highest level of training in the Ascent Certification series.

## OVERVIEW

This course focuses on in-depth understanding of programming concepts and DDC controls development. This class covers programming rules fundamentals, the VisualLogic programming toolkit, DDC functions, PI/PID loop configuration and operation, global controller DDC data transfers, and subroutines. This is a lab intensive course allowing students the opportunity to gain practical experience writing DDC code for VLCs and Global Controllers/Building Controllers.

## OBJECTIVES

After completion of this course students will be able to:

- Create and modify DDC programming for VisualLogic Controllers (VLCs).
- Create and assemble control strategies in VisualLogic for Global Controllers/Building Controllers utilizing subroutines.
- Implement the BACtalk PI function in VLC DDC and effectively tune a proportional-integral DDC loop.
- Describe the procedures for both updating DDC files for deployment in VIP-363 controllers and how to deploy Point Mapping.

## PREREQUISITES

- Knowledge of basic HVAC terms, principles, and concepts
- A working knowledge of Compass, including how to use the Device Manager and create graphical displays to support testing of the DDC
- Two years on-the-job experience working with Alerton's BACtalk and Ascent systems

## RESOURCES

- VisualLogic Programmers Guide

## REGISTRATION

For more information on this course, please visit [AlertonTraining.com](https://AlertonTraining.com) or email the Alerton Training Team at [info@alertontraining.com](mailto:info@alertontraining.com).