

TIA University- TIA the Expressway Video Tutorial TIA Portal Project Upgrade

General Information

Event Code: TBD
Length: 1 hour each

Audience

These video tutorials are for Engineers and PLC Programmers requiring an introduction to the fundamental aspects of TIA Portal advanced features and optional software tools.

Profile

Participants for these video tutorials must have a licensed copy of TIA Portal V17 or newer.

Each video tutorial comprises of two primary elements, a video tutorial and a TIA Portal project file mixtank.zap1x

Participants will watch the video and follow the instructor to complete each training exercise. This event is virtual (no live hardware) PLC Sim integrated into the Totally Integrated Automation framework is used for completing the lab exercises.

Learning Objectives

Upon completion of this event, the student shall be able to:

- Learn how to upgrade an older TIA Portal Project to a newer (latest) version. Example V16 to V17
- Learn how to upgrade the firmware in a Siemens PLC CPU
- Learn how to update the instruction library consistent with firmware enhancements

Exercise Topics

1. **Step 1 - Determine which software products are in use**
2. **Step 2- Ensure all necessary software products are installed**
3. **Step 3- Open project in new version of software**
4. **Step 4 – Update Firmware**
 - a. Determining current version of firmware running in PLC
 - b. Determining current version of project running in PLC
 - c. Modifying device configuration
 - d. Obtaining firmware from Siemens
 - e. Writing new firmware to PLC
5. **Step 5 - Update instruction versions**
 - a. Determining which instructions have new versions
 - b. Updating to latest version individually
 - c. Updating to latest version PLC-wide
6. **Step 6 – Download to PLC**