

## TIA University- TIA the Expressway Video Tutorial TIA Portal Multi-User Configuration

### 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 create a multi-user engineering environment within TIA Portal V17
- Learn how properly set up and manage the Project Server
- Learn how program developers collaborate engineering efforts in a multi-user programming environment
- Determine which project objects are supported by multi-user engineering
- Learn how multiple users modify objects in separate devices in the same project
- Learn how multiple users modify separate objects in the same device

### Exercise Topics

1. **Collaboration Scenarios**
2. **Typical multi-user architectures**
3. **Multi-User Guidelines**
4. **Managing Project Servers**
  - a. Selecting a project server
    - i) Local
    - ii) Network
  - b. Adding a project to a project server
  - c. Creating a local session
5. **Modifying supported objects in a local session**
  - a. Marking an object for check-in
  - b. Object status flags
  - c. Checking in changes to project server
6. **Modifying unsupported objects directly on the project server**
7. **Refreshing a local session**
8. **Modifying objects in separate devices**
9. **Modifying separate objects in the same device**
10. **Conflict notifications**
11. **TIA Project Server Administration Application**