

### **PT Building Design Workshop Course in Builder Edge**

The proposed training course covers a workshop in structural analysis and design of various types of buildings, based on 3-dimensional finite element modelling, using Builder Edge software and considering the PT effect on high-rise building.

#### **Course Outline:**

- Review current PT systems and construction practice in building structures
- Know the changes in the latest design code provisions for design of PT structures (ACI Code)
- Acquire the skill of structural modelling of concrete structures using component technology starting from the architect's drawing
- Import of Slab geometry from architectural AutoCAD files or from Revit model
- Analysis and design of the following slab systems: PT Flat, flat with drop panels, PT ribbed, PT Waffle slabs
- Straining actions due PT on high-rise building and design of vertical elements.
- Become familiar with the industry standard modelling of PT design
- Be guided through the design process to the detailed drawings of slabs and fabrication drawings (shop drawings)

**Instructor:** Eng. Zaher Abou Saleh

**Course duration:** 15 hours