

Agenda: Light Steel Framing Design & Building Information Modeling (BIM)

Day 1 Schedule: Overview of Light Steel Framing Design

9:30 – 10:00am: **Breakfast Snacks & Coffee**

10:00 – 11:00am: **Introduction**

- History of CFS - Durability and Fire Rating
- Current Specification and Design Standards
- Standard Nomenclature, Thickness and Coating

11:00 – 12:00pm: **Mid-Rise Load Bearing Steel Stud Framing**

- Wall and Floor Systems
- Wall Sheathing and Mechanical Bracing
- Design of Wall Tracks - Partial Bearing on Concrete - Load Distribution Members
- Shear Walls – Diagonal Strap Bracing
- Construction Bracing
- Project Examples
- Demonstration of Capabilities of SteelSmart Software

12:00 – 1:00pm: **Lunch**

1:00 – 2:30pm: **Wind-Bearing (Curtain Wall) Steel Stud Framing**

- Infill vs Bypass Framing
- Curtain Wall Openings
- Wall Sheathing and Mechanical Bracing
- Sliding and Rigid Connections
- Demonstration of Capabilities of SteelSmart® System

2:30 – 2:45pm: **Afternoon Break**

2:45 – 4:30pm: **CFS Construction Techniques**

- Wall and Floor Systems
- Wall Sheathing and Mechanical Bracing
- Design of Wall Tracks - Partial Bearing on Concrete - Load Distribution Members
- Shear Walls – Diagonal Strap Bracing
- Construction Bracing
- Project Examples
- Demonstration of Capabilities of SteelSmart Software

4:30 – 6:00pm: **Building Information Modeling (BIM) in Light Steel Framing**

- Benefits of BIM - Levels of Development (LOD)
- BIM in Light Steel Framing
- Demonstration of Capabilities of SteelSmart® Framer

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Day 2 Schedule: Software Demonstration and Hands-On Design Examples

8:30 – 9:00am: **Breakfast Snacks & Coffee**

9:00 – 12:00pm: **SteelSmart® System (SSS) Design Software**

- Load Generator and Distributor
- Load Bearing Wall
- Exterior Non-Load Bearing Wall with Openings
- Single and Double Stack Strap-Braced Shear Wall
- Short (Knee) Wall
- Floor Joist Framing

12:00 – 1:00pm: **Lunch**

1:00 – 4:00pm: **SteelSmart® Framer (SSF) plugin for Revit®**

- Framing Styles & Importing from SSS
- Framing Maps
- Apply framing using Single Framing Style (Infill load bearing wall, Bypass wall, StiffWall, Short (Knee) wall)
- Apply framing using framing Maps
- Panel drawings generation
- Material lists
- New Feature: Floor Joist Framing

* Please be advised, this is an estimated schedule & may be subject to change.