CHICAGO ELECTRICAL CODE

• Major revision since 2000 utilizing the 1999 NEC
• Document for minimum electrical requirements
• Maintains 90.1 – Purpose of the Code is for the practical safeguarding of persons and property from hazards arising from the use of electricity.
2017 NEC - BASIS OF ELECTRICAL CODE

• In line with the NEC
• Re-organization of Chapter 3 and 4 Articles
• Parallel numbering system of Articles and Sections
• 20 New Articles
• 5 New Annexes
RENEWABLE ENERGY

• Revised much outdated CEC Article 625 with 2017 NEC Article 625

• Revised much outdated CEC Article 690 with 2017 NEC Article 690
NEW RENEWABLE ENERGY ARTICLES

• Article 691 – Large Scale Solar
• Article 692 – Fuel Cell Systems
• Article 694 – Wind Electric Systems
• Article 706- Energy Storage Systems
• Article 710 – Stand-Alone Systems
• Article 712 – Direct Current Microgrids
ENERGY EFFICIENCY TECHNOLOGY

• Article 220 – Branch-Circuit, Feeder and Service Calculations incorporating 2015 IECC concepts

• Article 406 Receptacles….Controlled receptacle marking, receptacles with USB Marking and energy smart receptacles

• Article 410- Lighting Luminaires…LED lighting

• Article 411 Low voltage luminaires
CEC ARTICLES

• Article 225 – Outside Branch Circuit and Feeders
• Article 517 - Health Care
• Article 560 – Dwellings
• Article 570 – Rehab
• Article 600 - Signs

• Article 700 – Emergency Systems
• Article 701 – Standby Generator
• Article 760 – Fire Alarms
SIGNIFICANT CHANGES

• Article 100 - Definitions
• 210. 8 – GFCI Requirements for dwellings and non-dwellings
• 201.12 – AFCI Protection
• Article 220 and Annex D Examples
• 230.70 – Disconnecting Means Location
• Table 250.66 – Grounding Electrode Conductor
• 250.58 – Hogan Ground requirements location
SIGNIFICANT CHANGES

• Articles 725, 770 and all Chapter 8 Articles to include new low voltage technology