

## CSA Overhead and Underground Systems Standard Publications - 2025

### Distribution Company Awareness

Recently, CSA Group announced the publication of two (2) revised National Standards of Canada, Overhead Systems (C22.3 No.1:25) and Underground Systems (C22.3 No.7:25). Both Standards are essential for safety and compliance with Ontario Regulation 22/04. ESA is taking this opportunity to remind Distributors of the guidance provided in the Technical Guidelines Sections 6, 7 & 8 and supply the reference in Regulation 22/04.

### Technical Guidelines Sections 6, 7 & 8 Excerpt

#### ***3.2 National Standards and Code***

#### ***3.2.1 If distributors are going to build to National Standards or Codes what do they need to follow?***

*Distributors are encouraged to use the latest National Standards or Codes. Transitioning to the latest National Standards or Codes varies based on the magnitude of changes. Typically, a period of 1 year from the publication date is considered sufficient for transitioning plans and Standard Designs.*

### Regulation 22/04 Excerpt

#### ***When safety standards met***

*5. (2) Overhead distribution lines that meet the requirements of CSA Standard C22.3 No. 1:15 Overhead Systems or the requirements set out in Rules 2-100 to 2-404 of section 2 and in sections 3, 4, 10, 12, 14, 18, 26, 28, 36, 75, 80 and 84 of the ESC are deemed to meet the safety standards set out in subsections 4 (2) and (4). O. Reg. 22/04, s. 5 (2); O. Reg. 220/17, s. 1 (2).*

*(3) Underground distribution lines that meet the requirements of CSA Standard C22.3 No. 7:15 Underground Systems or the requirements set out in Rules 2-100 to 2-404 of section 2 and in sections 3, 4, 10, 12, 14, 18, 26, 28, 36, 75, 80 and 84 of the ESC are deemed to meet the safety standards set out in subsections 4 (2) and (5). O. Reg. 22/04, s. 5 (3); O. Reg. 220/17, s. 1 (3).*

## Key updates

*The 2025 editions of CSA C22.3 No.1 and CSA C22.3 No.7 place particular emphasis on climate resilience and advanced engineering design, incorporating:*

- ***Climate-adaptive design data*** reflecting projected changes in temperature, wind, ice, and precipitation
- ***Location-specific climate modeling***, helping engineers tailor designs to regional conditions
- ***Requirements for nonlinear, multi-structure load simulations*** to improve system accuracy and safety
- ***Revised guidance on separations and clearances***, enhancing public and worker safety

## Supporting Industry Competence and Compliance

To help industry professionals effectively apply these standards, CSA Group offers the updated [CE Code, Part III Essentials Course](#)—a comprehensive learning opportunity designed to deepen understanding of overhead and underground system requirements. The course, led by seasoned industry experts, helps utilities, regulators, and engineers align their practices with the latest national safety and performance expectations.