2024 Manitoba Electrical Code

Questions from

the March 17, 2026 Code seminar

and responses

Winnipeg Manitoba Hydro energy for life

Questions & Answers

Question 1: Is a bonding conductor required with service conductors installed in PVC conduit?

Answer: The grounded service conductor (neutral) on the supply side of the service box will be permitted to bond the meter mounting device. If the neutral is isolated in the meter base, a separate bonding conductor shall be run to the meter base from the service box. See Rule 12-1122 and T.I. 10-210.

Questions & Answers

Question 2: What is the alternative method for calculating voltage drop that is used by MB Hydro/ City of Winnipeg?

Answer: $$MM^2 = \frac{I \times D \times 2 \times K}{\%VD}$$

MM ² = CONDUCTOR AREA IN MILLIMETERS SQUARED

I = AMPERAGE (A)

D = DISTANCE (METERS ONLY)

K = CONSTANT Copper .0179
Aluminum .0295

VD = % of allowable voltage drop

eg. At 3% 120v = 3.6 240v = 7.2

I = actual load in Amps for branch circuits. For panel feeders, use the panel rating.
TD5 = Table D5

TD5 Conductor area (Page 765)

Winnipeg Manitoba Hydro energy for life

Questions & Answers

Question 3: Do we have to bond an existing concrete slab for a hot tub installation?

Answer: No, if it is an existing installation where the hot tub is being replaced.

Questions & Answers

Question 4: Hot tub bonding requirements may not be able to be met in installation where the tub is getting installed tight to a house. Is there a solution to meet these requirements?

Answer: For a factory certified hot tub, these areas may be considered as “not accessible” if there isn’t enough room to occupy the space. Only the “accessible” areas require the copper ring.

Questions & Answers

Question 5: Can you discuss CT's and their allowance in electrical panels; as used in residential solar, battery backup and load management systems?

Answer: CE Code 2024 did not amend provisions for the installation of current transformers (CTs) in electrical equipment. A panelboard can house CTs if it is approved for the purpose. Alternatively, a field evaluation for the acceptance of installing CTs in a panelboard as per 12-3032 4) can be conducted.

Winnipeg Manitoba Hydro energy for life

Questions & Answers

Question 6: AC/DC inverter with an integral disconnect is now permitted; will this be reflected in an information bulletin and solar permit template?

Answer: An integral disconnect is approved as specified in CE Code 64-060 3), provided the requirements of 64-060 1) are met.

Winnipeg Manitoba Hydro energy for life

Questions & Answers

Question 7: Are kitchen island receptacles mounted below the height of the work surface still compliant? i.e. in the side of the island.

Answer: Yes, they should be mounted as high as possible. 26-722 Technical interpretation states located as close as practicable to work surface when mounted below.

Questions & Answers

Question 8: Is it now permissible to install NS cable on private property, i.e. re-feed an existing light pole when underground cable was damaged?

Answer: Neutral supported cable may be installed provided in compliance with all the requirements outlined in the 12-300 Rules.

Winnipeg Manitoba Hydro energy for life

Questions & Answers

Question 9: a) Will a GFCI breaker be required to meet the requirements of 26-702?

b) Will GFCI be required for installation of IPLC Receptacles?

Answer: a) GFCI protection in Rule 26-702 must be Class A for receptacles where bonding means does not exist.

b) IPLC is required to have GFCI per 26-704. GFCI receptacle may not work because of the cycling of the IPLC. Class A GFCI can be a breaker or receptacle per IPLC manufacturer. New technical interpretation to relax requirements for certain installations – emergency vehicles etc.

Winnipeg Manitoba Hydro energy for life

Questions & Answers

Question 10: The receptacle for the driveway, should it be inside or outside?

Answer: Outside. Receptacles will have to be installed in areas that serve the circuit requirements. I.e. A driveway receptacle will have to be installed in a location that permits the use of an approved block heater without deviation from the requirements of 12-402.

Questions & Answers

Question 11: Do plugs on decks count as driveway plugs or do we need to add another plug?

Answer: No, 26-724 Technical interpretations state that receptacles installed accessible from grade/ ground level, per 26-724 1) may be used as the driveway receptacle(s). 26-722 b) requires a receptacle for each porch or balcony.