

..... getting to know:-

NZEC 34 - New Zealand Electrical Code of Practice for Electrical Safety Distances

INTRODUCTION

This Electrical Code of Practice (Code) sets minimum safe electrical distance requirements for overhead electric line installations and other works associated with the supply of electricity from generating stations to end users.

The minimum safe distances have been set primarily to protect persons, property, vehicles and mobile plant from harm or damage from electrical hazards. The minimum distances are also a guide for the design of electrical works within substations, generating stations or similar areas where electrical equipment and fittings have to be operated and maintained.

The Code has been designed to include, in its various sections, requirements that were previously contained in the Electricity Regulations 1997 (the Regulations). Compliance with this Code is mandatory.

- **Section 1** is a general section, including this Code's scope, interpretation and glossary.
- **Sections 2 and 3** cover the safe distance requirements for building works and excavation near overhead electric line support structures. It also covers the construction of buildings and other structures near conductors and the installation of conductors near existing buildings and similar structures.
- **Section 4** covers the requirements for maintaining safe distances between conductors and the ground and water, including restrictions on material being deposited under or near conductors.
- **Section 5** covers the responsibilities of parties who work or operate mobile plant near overhead electric lines and other electrical works.
- **Sections 6 – 8** cover the requirements for safe design and installation of overhead electric and telecommunications systems and other electrical works and controls on access to conductors.
- **Section 9** covers minimum safe approach distance requirements for persons working near exposed live parts.
- **Section 10** covers the responsibilities of owners of electricity supply works for inspection and maintaining records.

Getting to know ECP 34

| Sect | Title | Important Clauses |
|---------|-------|-------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| Tables | | |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| Figures | | |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

QUESTIONS

Question 1

Refer to NZECP 34 and state the minimum vertical distance from the ground of a 230V **overhead insulated** sub-main that **crosses a footpath used only by pedestrians** (1 mark)

Ref:

Question 2

Refer to NZECP 34 and state the minimum vertical distance from the ground of a 230V **overhead insulated** sub-main that **crosses a driveway**. (1 mark)

Ref:

Question 3

Refer to NZECP 34 and state the minimum approach distance limit for a **non-competent person** working near an 11,000V overhead electric line. (1 mark)

Ref:

Question 4

Refer to NZECP 34 and state the minimum approach distance limit for a **competent person** working near an 11,000V overhead electric line. (1 mark)

Ref: