Powerline Technician Harmonized Level 2

ACRONYMS AND ABBREVIATIONS

TERM	MEANING
A	ampere
AC	alternating current
CSA	Canadian Standards Association
DC	direct current
DVI	digital voltage indicator
G & B.	grounding and bonding
IEEE	Institute of Electrical and Electronic Engineers
kV	kilovolt
kVA	kilovolt-ampere
MK II	Mark 2 switchgear
SF6	sulfur hexafluoride
UC	underground cable
UDD	underground distribution drawing
V	volt
VA	volt-amp
VCI	voice cable identifier
XLPE	cross-linked polyethylene

NOTE Do **not** bring this document to your exam.
These acronyms and abbreviations will be included in the exam reference materials.

FORMULAS

$I = \frac{kVA \times 1000}{V}$	$G.L. = \sqrt{Anchor\ distance^2 + Pole\ height^2}$
$B.T. = \frac{Conductor\ tension}{Measured\ distance} \times Bisect\ line \times 2$	$S.T. = \frac{Weight}{No.\ of\ points\ (2)} \times \frac{Sling\ length}{Height}$
$G.T. = \frac{Bisect\ tension}{Anchor\ distance} \times Guy\ length$	$G.T. = \frac{Conductor\ tension}{Anchor\ distance} \times Guy\ length$
$C.F. = \frac{Bisect\ tension}{Anchor\ distance} \times Pole\ height$	$C.F. = \frac{Conductor\ tension}{Anchor\ distance} \times Pole\ height$
$C.T. = \frac{Conductor\ weight\ per\ ft.\ or\ m \times (Span\ length)^2}{8 \times Sag}$	
$P.T. = Conductor\ weight \times \frac{Saddle\ distance\ to\ conductor}{Saddle\ distance}$	
$C.W. = \frac{Span\ A + Span\ B}{2} \times Weight\ of\ conductor\ per\ ft.\ or\ m$ When moving a conductor, apply design factors as follows: Long Span (250 ft. or 75 m & over): Design Factor 1.5 Short Span (Under 250 ft. or 75 m): Design Factor 2	
$P = \frac{Weight\ of\ object + (10\%\ Weight\ of\ object \times No.\ of\ sheaves\ rope\ passes)}{Mechanical\ advantage}$	

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