

Ironworker (Generalist) (2026) Level 1

ACRONYMS AND ABBREVIATIONS

TERM	MEANING
AC	alternating current
AT	all-terrain
B&O	backout punch
BUL	bottom upper layer
CCOG	combined centre of gravity
CLT	cross-laminated timber
COG	centre of gravity
DC	direct current
DCEP	direct current electrode positive
DCSP	direct current straight polarity
DLT	dowel-laminated timber
FCAW	flux core arc welding
GFCI	ground fault circuit interrupter
GLT	glue-laminated timber
GMAW	gas metal arc welding
GTAW	gas tungsten arc welding
HSS	hollow structural section
ID	inside diameter
NDT	non-destructive testing
NLT	nail-laminated timber
OHS	Occupational Health and Safety
PPE	personal protective equipment
PT	post-tensioning
SMAW	shielded metal arc welding
TC	tension control
WLL	working load limit

Ironworker (Generalist) (2026): Level 1 Acronyms and Abbreviations

August 1, 2026

UNITS OF MEASUREMENT

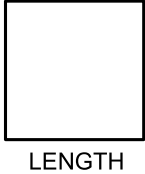
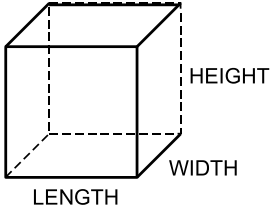
TERM	MEANING
°	degrees
A	ampere
ft.	foot
ft. ³	cubic foot
ft./lb.	foot-pound
in.	inch
kg	kilogram
kg/m	kilogram per metre
km/h	kilometres per hour
kN	kilonewton
ksi	kilopound per square inch
lb.	pound
lb./ft.	pound per foot
m	metre
m ³	cubic metre
mm	millimetre
MPa	megapascal
mph	miles per hour
psi	pound per square inch

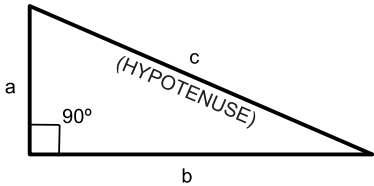
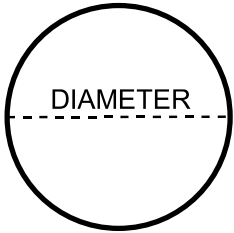
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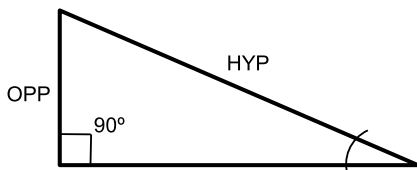
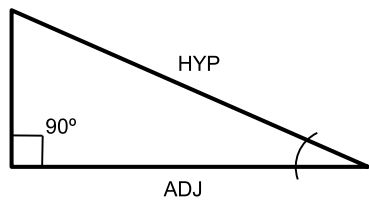
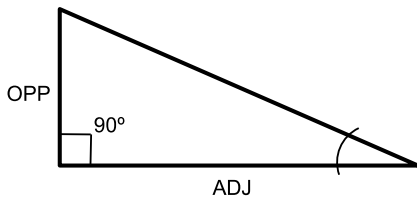
Do **not** bring this document to your exam.

These acronyms and abbreviations will be included in the exam reference materials.

FORMULAS

 <i>Area (in square units) = $L \times W$</i>	 <i>Volume (in cubic units) = $L \times W \times H$</i>
$Tension = \frac{\text{weight}}{\text{number of slings}} \times \frac{\text{length of sling}}{\text{vertical length}}$	

	<i>Missing side (in linear units) = $a^2 + b^2 = c^2$</i> or <i>Missing side (in linear units) = $c^2 - b^2 = a^2$</i>
	$Radius (r) = \frac{Diameter}{2}$ <i>Circumference (in linear units) = $\pi \times diameter$</i> <i>Area (in square units) = $\pi \times radius^2$</i>

	Using SINE $\text{Angle SIN} \times \text{HYP} = \text{OPP}$ $\text{OPP} \div \text{Angle SIN} = \text{HYP}$ $\text{OPP} \div \text{HYP} = \text{Angle SIN}^{-1}$
	Using COSINE $\text{Angle COS} \times \text{HYP} = \text{ADJ}$ $\text{ADJ} \div \text{Angle COS} = \text{HYP}$ $\text{ADJ} \div \text{HYP} = \text{Angle COS}^{-1}$
	Using TANGENT $\text{Angle TAN} \times \text{ADJ} = \text{OPP}$ $\text{OPP} \div \text{Angle TAN} = \text{ADJ}$ $\text{OPP} \div \text{ADJ} = \text{Angle TAN}^{-1}$

Material	Imperial unit weight	Metric unit weight
Steel	490 lb./ft ³	7,850 kg/m ³
Brick	110 – 140 lb./ft ³	1,762 – 2,243 kg/m ³
Reinforced Concrete	150 lb./ft ³	2,405 kg/m ³

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