

# Sheet Metal Worker Harmonized Level 3

## ACRONYMS AND ABBREVIATIONS

TERM	MEANING
Ø	Diameter
ACEN	Alternating current electrode negative
ACEP	Alternating current electrode positive
BHP	Brake horsepower
BTU/h	British thermal unit per hour
BTUs	British thermal units
CAW	Carbon arc welding
CFM	Cubic feet per minute
CNC	Computer numerical control
DCEN	Direct current electrode negative
DCEP	Direct current electrode positive
ERV	Energy recovery ventilation
FPM	Feet per minute
ga	gauge
GMAW	Gas metal arc welding
GTAW	Gas tungsten arc welding
HEPA	High-Efficiency Particulate Air
HTMH	Heat transfer multiplier per hour
HTMs	Heat transfer multiplier
rpm	revolutions per minute
S and Drive	Slip and Drive
SMACNA	Sheet Metal and Air Conditioning Contractors' National Association
SMAW	Shielded metal arc welding
t	ton
TIG	Tungsten inert gas
VAV	Variable air volume
WHMIS (GHS)	Workplace Hazardous Materials Information System (Globally Harmonized System)

### NOTE

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

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

# Sheet Metal Worker Harmonized Level 3

## FORMULAS

$\text{Velocity of air} = 4005\sqrt{V.P.}$
$BTU/h = \Delta T \times CFM \times 1.08$
$\text{Apex Height} = \frac{VH \times LD}{LD - SD}$
$\text{Pattern Angle} = \frac{180 \times \text{Base Diameter}}{\text{Slant Length}}$

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