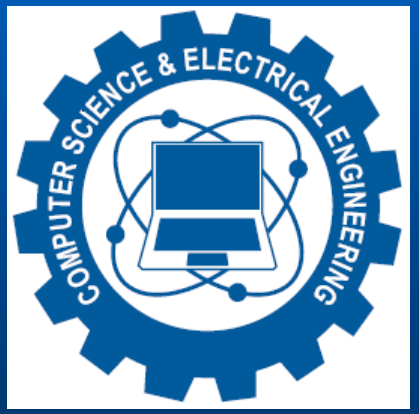
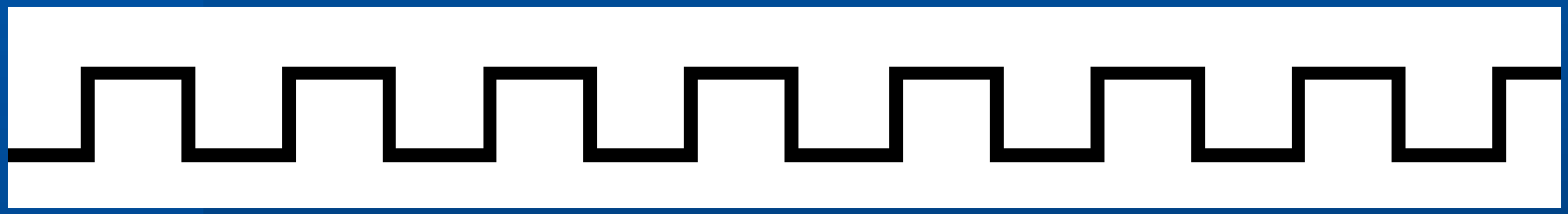
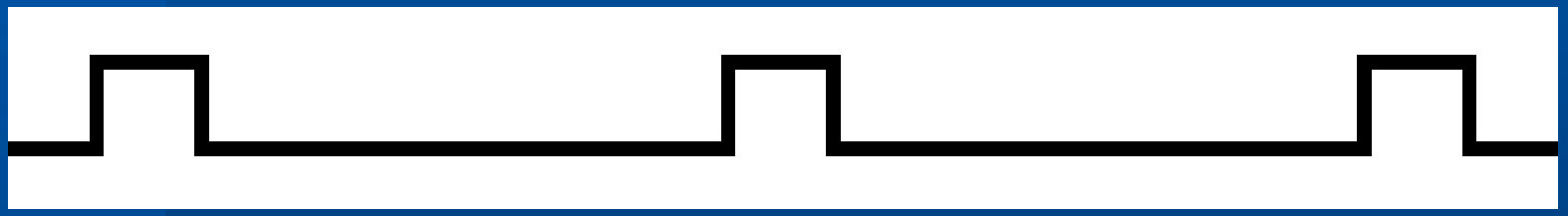
Pulse Waveforms



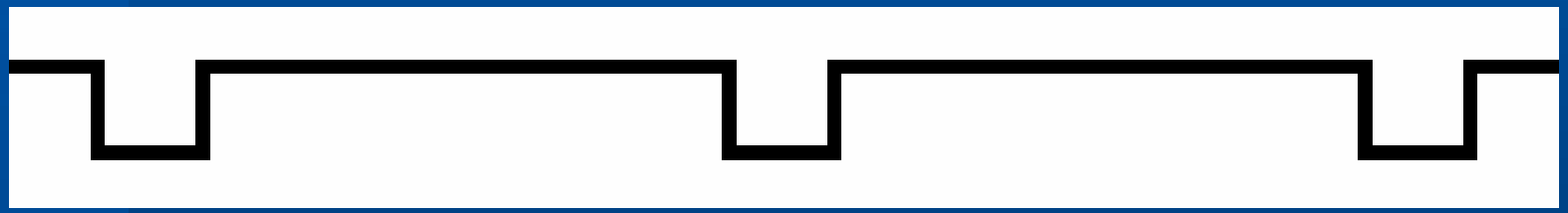
Free Running



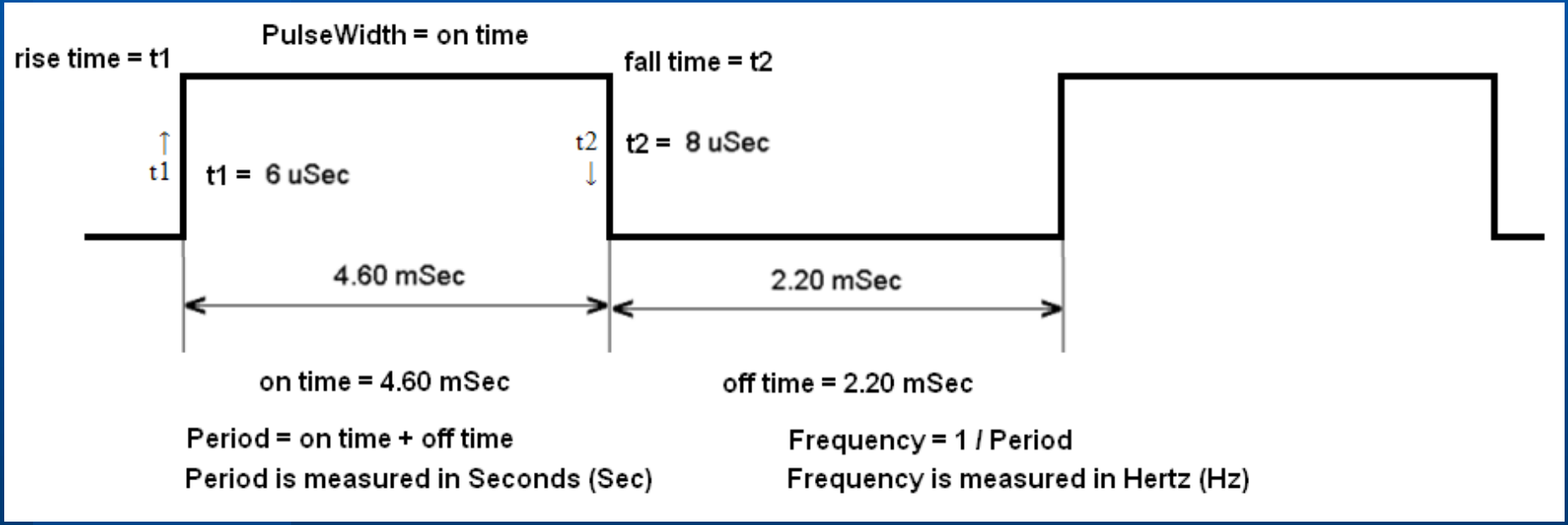
One-Shot (short delay)



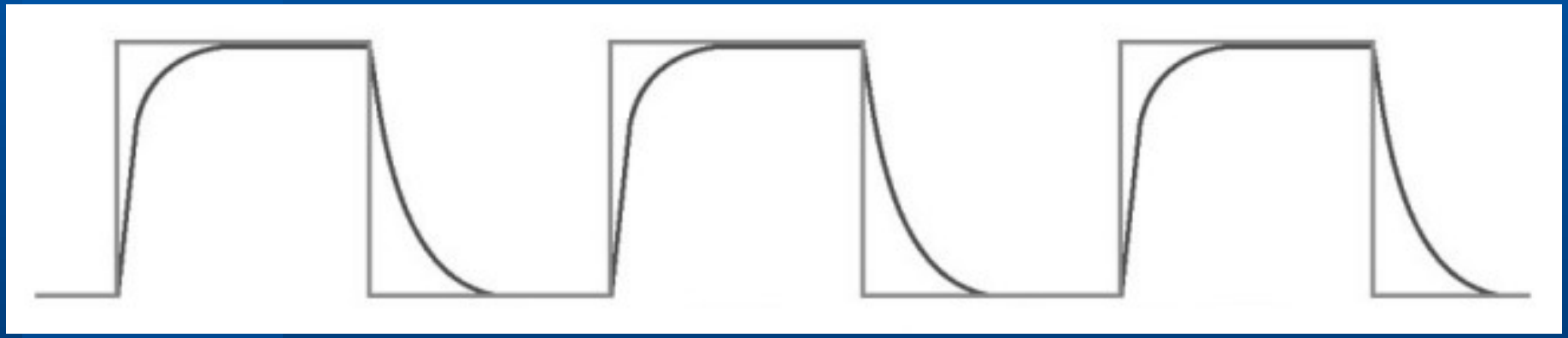
One-Shot (long delay)



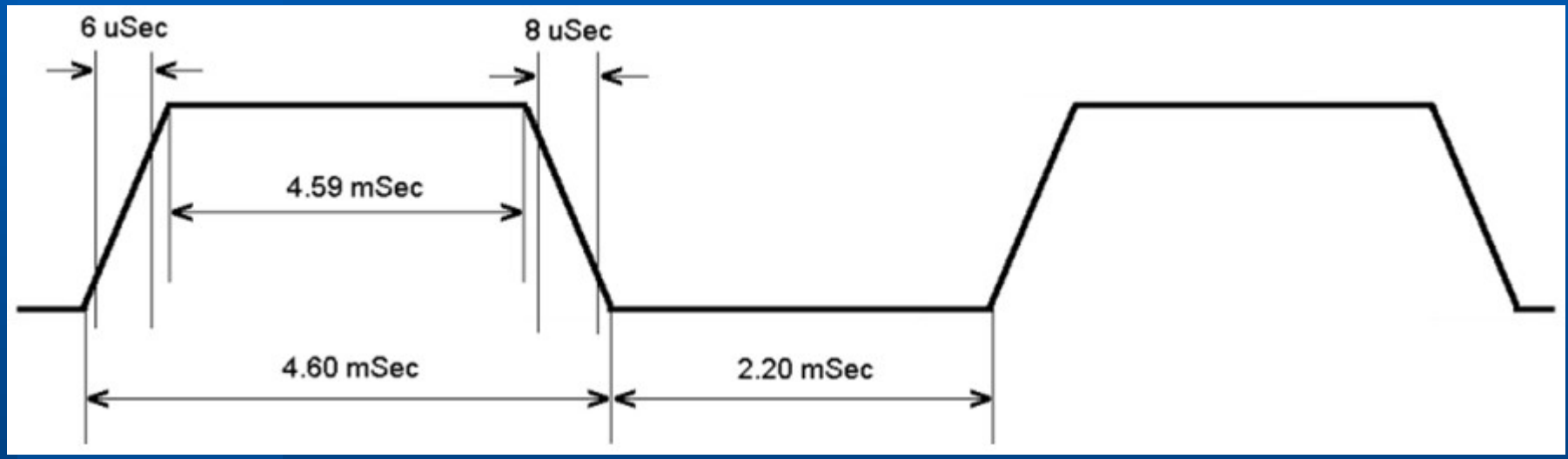
Pulse Waveform Characteristics Theoretical/Ideal



Practical Pulse Waveform



Pulse Waveform Characteristics Practical/Real



t_{on} = 4.59mSec

t_{off} = 2.20mSec

Pulse Width = 4.59mSec

rise time = 6µSec

fall time = 8µSec

Duty Cycle

- Ratio of On Time to Period
- Percentage (%) of the waveform's period

$$\frac{\text{on time (sec)}}{\text{period (sec)}} \times 100 = \text{Duty Cycle (\%)}$$