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 An Introduction to Time Waveform Analysis
 We now know that the time it takes for electrical waveforms to repeat themselves is known as the periodic time or period which represents a fixed amount of time. If we take the reciprocal of the period, ($1/T$) we end up with a value that denotes the number of times a period or cycle repeats itself in one second or cycles per second, and this is commonly known as Frequency with units of Hertz, (Hz).

Electrical Waveforms and Electrical Signals
 A waveform is a digitized recreation of very dynamic voltage changes over time. Here is how they are typically generated.... The discrete changes in an input signal are rectified in an instant through a process

called "Pulse Code Modulation" (PCM). Simply put, PCM assigns a bit value to each sample at whatever sampling rate you're running.

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 Generally we will represent AC waveform by Sinusoidal waveform and its mathematical formulae is. $A(t) = A \sin(2\pi ft)$ Where, A is Amplitude of signal. t is the time period. f is the frequency of signal. In the process of generation of AC current, a wire or coil is rotated in a magnetic field produced by 2 magnets.

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 Introduction to Time Waveform Replication
 This class explores the basic process of reproducing and controlling a time waveform for shaker testing. A controller will be present for

demonstration of practical techniques on how to perform a Time Waveform Replication (TWR) test. Examples of error calculations will be included.

Introduction to Time Waveform Replication
 The voltage of a waveform at a given instant in time is called "Instantaneous voltage". In the above diagram $v_1, v_2, v_3, v_4, v_5, v_6, \dots$ are the instantaneous voltages of the sine wave. To find the instantaneous voltage value of the sine wave, we depend on Maximum voltage of the sine wave.
 Instantaneous voltage = Maximum voltage $\times \sin \theta$

Sinusoidal Waveform - Electronics Hub
 Weirdly, there is no mention of ventilator waveforms in the 2017 version of the CICM primary syllabus, but by the time they are ready for the Part II exam the trainees are expected to have some considerable mastery of this topic (judging by the complex waveforms they need to interpret in SAQs such as Question 11.3 from the second paper of 2017).

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