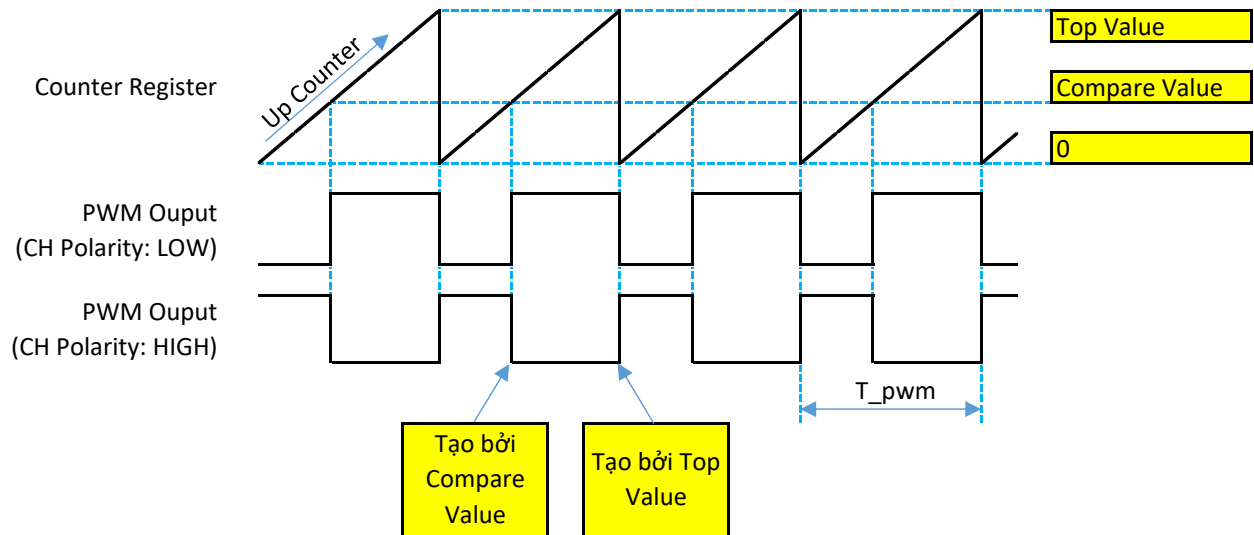


### PWM edge-aligned (Upcounting / Tương tự cho Downcounting)



$$\text{Top\_Value} = \text{Counter\_Period}$$

$$\Rightarrow T_{pwm} = T_{\text{clock\_source}} * \text{Prescaler} * (\text{Counter\_Period} + 1)$$

$$\Leftrightarrow f_{\text{clock\_source}} = f_{pwm} * \text{Prescaler} * (\text{Counter\_Period} + 1)$$

$$(\text{CH Polarity: HIGH}) \text{ PWM} = \text{Compare\_Value} / \text{Top\_Value} = \text{Pulse} / \text{Counter\_Period}$$

$$(\text{CH Polarity: LOW}) \text{ PWM} = 1 - (\text{Compare\_Value} / \text{Top\_Value}) = 1 - (\text{Pulse} / \text{Counter\_Period})$$

Giá trị cấu hình vào thanh ghi:  $\text{Prescaler\_Register} = \text{Prescaler} - 1$

Giá trị cấu hình vào thanh ghi:  $\text{Counter\_Period\_Register} = \text{Counter\_Period}$

Giá trị cấu hình vào thanh ghi:  $\text{Pulse\_Register} = \text{Pulse}$

### PWM center-aligned

