Let's get the bounds for each task

task 0: $1.5 \leq T_0 \leq 4$, $\bar{T}_0 = \frac{1.5+4}{2} = 2.75$ ms (on average)

task 1: $2+0.5+2 \leq T_1 \leq 2+3+4$

$\therefore 4.5 \leq T_1 \leq 9$, $\bar{T}_1 = \frac{4.5+9}{2} = 6.75$ ms (on average)

task 2: $5+0.5+4 \leq T_2 \leq 5+1+6$

$\therefore 9.5 \leq T_2 \leq 12$, $\bar{T}_2 = \frac{9.5+12}{2} = 10.75$ ms (on average)

now let T_{tick} denote our tick period.

if $100\,T_{tick} = T_0 + T_1 T_2$,

then

$$15.5 \leq 100\,T_{tick} \leq 25$$

and

$$100\,\bar{T}_{tick} = 20.25.$$

therefore

$T_{tick,min} = 0.155$ ms

$T_{tick,max} = 0.25$ ms

$\bar{T}_{tick} = 0.2025$ ms