## How to calculate Leave Entitlement

[1.0]
[20/11/2020]

| $\square \square$ | QNE TIPS |
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| REV. No | Nature of Change | Prepared By | Prepared Date |  <br> Approved by |
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| 1.0 | How to calculate Leave Entitlement | Kiat | $20 / 11 / 2020$ |  |
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Amendment Record

|  | QNE TIPS |  |
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|  | Product : QNE Optimum | Version: 1.00 |
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SCENARIO
On Company > Company Profile > Setting > Leave Setting there have 3 Leave Calculation Method to choose.

| Leave Calculation Method: | Month/Proportion |
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|  | Days Method <br> Leave Cutoff Day: |
|  | Month/Inclusive |
|  | Month/Proportion |

## SOLUTION

Here is the formula for 3 Leave Calculation Method.

1) For Days Method, the system will calculate the leave entitlement based on days

## Calculation Formula:

L1 $=$ No. of days start from year until Join/Confirm Month and Day

L2 = Leave Entitle Days before Join/Confirm Day.
yearTotalDays $=365$ or 366(if it's leap year)
Leave Entitlement $=(((\mathrm{n}-1) \div$ yearTotalDays $) \times \mathrm{L} 1)+((($ yearTotalDays $-\mathrm{n}+1) \div$ yearTotalDays $) \times$ L2 $)$

| Join Date | Year of Service | No. of Days <br> (n) | Total Days of Year (yearTotalDays) | Leave Entitle Days | Leave Entitlement |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 13/03/2019 | $\begin{gathered} \hline 01 / 01 / 2020-13 / 03 / 2020 \\ (<2 \text { years }) \\ \hline \end{gathered}$ | $\begin{gathered} 73 \\ (31(\text { Jan })+29(\text { Feb })+13(\text { Mar })) \end{gathered}$ | 366(leap year) | 8 (L1) | $\begin{aligned} & (((73-1) \div 366) \times 8)+ \\ & (((366-73+1) \div 366) \times 8) \\ = & (1.62+6.38)=8 \text { days } \end{aligned}$ |
|  | $\begin{gathered} \hline 14 / 03 / 2020-31 / 12 / 2020 \\ (<2 \text { years }) \end{gathered}$ |  |  | 8 (L2) |  |
| 20/05/2018 | $\begin{gathered} \hline 01 / 01 / 2020-20 / 05 / 2020 \\ (<2 \text { years }) \\ \hline \end{gathered}$ | $\begin{gathered} 141 \\ (31(\text { Jan })+29(\text { Feb })+31(\text { Mar })+ \\ 30(\text { April })+20(\text { May })) \end{gathered}$ | 366(leap year) | 8(L1) | $\begin{aligned} & (((141-1) \div 366) \times 8)+ \\ & (((366-141+1) \div 366) \times 12) \\ = & (3.06+7.41)=10.47 \text { days } \end{aligned}$ |
|  | $\begin{aligned} & \hline 21 / 05 / 2020-31 / 12 / 2020 \\ & (>2 \text { years and < } 5 \text { years }) \end{aligned}$ |  |  | 12(L2) |  |



For Month/Inclusive, to calculate leave of entitlement based on which cut of date of the month. (e.g.: if the cutoff date is set as 15 at Include the month in service length calculation if day of service is before or on, employees who join before 15 of the month, the system will include 1 day of leave entitlement and for those who join after 15 of the month, the system will exclude the 1 day of leave entitlement for that month.)

## Calculation Formula:

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Join Date | Year of Service | No. of Months (Mons) | Leave Entitle Days | Leave Entitlement |
| 13/03/2019 | $01 / 01 / 2020-13 / 03 / 2020$ <br> $(<2$ years $)$ <br> $14 / 03 / 2020-31 / 12 / 2020$ <br> $(<2$ years $)$ <br> $01 / 01 / 2020$ 促 | $\begin{gathered} \hline 2 \\ \text { (Jan }+ \text { Feb }+ \text { Mar) } \\ \text { (13(Join Date) }<=\text { Cutoff Day) } \\ \text { (Mons }=3-1 \text { ) } \\ \hline \end{gathered}$ | 8 (L1) | $\begin{aligned} &((2 \div 12) \times 8)+ \\ &(((12-2) \div 12) \times 8) \\ &=(3.33+6.67)=8 \text { days } \end{aligned}$ |
| 20/05/2018 | $01 / 01 / 2020-20 / 05 / 2020$ <br> $(<2$ years $)$$21 / 05 / 2020-31 / 12 / 2020$ <br> $(>2$ years and $<5$ years $)$ | $\begin{gathered} 5 \\ (\text { Jan }+ \text { Feb }+ \text { Mar }+ \text { Apr }+ \text { May }) \\ (20(\text { Join Date })>\text { Cutoff Day }) \\ (\text { Mons }=5) \end{gathered}$ | 8(L1) 12(L2) | $\begin{gathered} ((5 \div 12) \times 8)+ \\ (((12-5) \div 12) \times 12) \\ =(3.33+7)=10.33 \text { days } \end{gathered}$ |

Leave Cutoff Day: Specify the cutoff date for the system to calculate the leave entitlement. This setting is only applicable if Month/Inclusive method is used.


For example: 15 is set on Leave Cutoff Day, therefore if date of service is before or on the 15 th of the month, the system will include the month in service length calculation and if the date of service is after the 15 th of the month, the system will exclude the month in the service length entitlement.

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3) For Month/Proportion, the system will calculate based on proportion

## Calculation Formula:

Mons $\quad=$ No. of months before Join/Confirm Month
JoinDays $\quad=$ No. of days of Join/Confirm Day - 1
JoinMonthDays $=$ No of days of Join/Confirm Month
Mon1 $\quad=$ Mons $+($ JoinDay $\div$ JoinMonthDays $)$
Mon2 $=12-$ Mon1
L1 = Leave Entitle Days before Join/Confirm Day.
L2 = Leave Entitle Days on and after Join/Confirm Day.
Leave Entitlement $=(($ Mon1 $\div 12) \times L 1)+(($ Mon2 $\div 12) \times L 2)$

| Join Date | Year of Service | No. of Months (Mon1 \& Mon2) | Leave Entitle Days | Leave Entitlement |
| :---: | :---: | :---: | :---: | :---: |
| 13/03/2019 | $\begin{gathered} \hline 01 / 01 / 2020-13 / 03 / 2020 \\ (<2 \text { years }) \end{gathered}$ | Mon1 $=2+((13-1) \div 31)=2.39$ | 8 (L1) | $\begin{aligned} & ((2.39 \div 12) \times 8)+ \\ & ((9.61 \div 12) \times 8) \\ = & 1.60+6.40=8 \text { days } \end{aligned}$ |
|  | $\begin{gathered} 14 / 03 / 2020-31 / 12 / 2020 \\ (<2 \text { years }) \end{gathered}$ | Mon2 $=12-2.39=9.61$ | 8 (L2) |  |
| 20/05/2018 | $\begin{gathered} \hline 01 / 01 / 2020-20 / 05 / 2020 \\ (<2 \text { years }) \\ \hline \end{gathered}$ | Mon1 $=4+((20-1 \div 31)=4.61$ | 8(L1) | $\begin{gathered} ((4.61 \div 12) \times 8)+ \\ ((7.39 \div 12) \times 12) \\ =(3.07+7.39)=10.46 \text { days } \end{gathered}$ |
|  | $\begin{aligned} & 21 / 05 / 2020-31 / 12 / 2020 \\ & (>2 \text { years and < } 5 \text { years }) \\ & \hline \end{aligned}$ | Mon2 $=12-4.61=7.39$ | 12(L2) |  |

