**FORMULA to calculate Overall Maturity Score for current Month**

**Case 1 : When we have few new reassessment applications added in our current month.**

**Step 1** : Based on the DevSecOps % score find out the exact level score of first time assessment and level score for reassessment for same application using the given Maturity chart.

**Step 2** : Find the change in the level score for all application by subtracting New level score – Old level score for all reassessment application done in current month.

**Step 3** : Add all the change level score:

**Step 4** : Use the below formula to calculate the new Maturity score

**A** : Total number of DSO application assessment completed till last month

**B** : Overall maturity score till last month

**C**: Sum of change level score for all the new reassessment application in the current newsletter

**NEW MATURITY SCORE = (B + C/A)**

**Scenario/Example:** We have added 3 reassessment application in our current month. Till last month our Maturity score(B) was 3.0 and Total number of application assessment completed till last month(A) was 30. How we will calculate the overall maturity score?

**Step 1 :**

**Application Initial % Initial level(Y) Reassess % Re Level score(X) Change(X-Y)**

**A 35 2.4 57 3.3 0.9**

**B 40 2.6 50 2.9 0.3**

**C 22 2 75 4.2 2.2**

**Step 2 : Add all change value = 0.9+0.3+2.2 = 3.4**

**New Maturity score = 3.0 + 3.4/30 = 3.11**

**Case 2 : When we have new applications added to the current DevSecOps assessment list.**

**Step 1**: Based on the DevSecOps score % find out the exact level score in decimal using the given Maturity chart.

**Step 2**: Add the level score for all new applications.

**Step 3** : Use below formula:

**A** : Total number of DSO application assessment completed in till last month.

**B** : Overall maturity score from Case 1 (if we have no reassessment application in current month than take the maturity score of last month)

**C**: Sum of level score calculated in step 2

**D**: Total number of DSO application assessment completed till current newsletter

**New Maturity Score = (A\*B+C)/D**

**Scenario/Example:** We have added 5 new applications in our current month whose DevSecOps% are 80 , 45 , 60, 70, 68 respectively and 3 new reassessment which we already covered in case 1. What will be the current Maturity Score?

Overall maturity Score from case 1 or if no reassessment in current month take maturity score of last month (**B**) = 3.11

Total number of DSO application assessment completed in till last month (**A**) = 30

Total number of DSO application assessment completed in till current newsletter (**D**) = 30+5=35

Calculate the level score in decimal for all new applications = 80 🡪 4.4

45 🡪 2.8

60 🡪 3.4

70 🡪 3.9

68 🡪 3.8

Sum of level score in decimal (**C** ) = 4.4+2.8+3.4+3.9+3.8 = 18.3

**New Maturity score = 3.11 + 3.4/30 = 3.19**