

**SDL Assignment on
Continuous Integration and Continuous Delivery (CI/CD)
(20 marks, 10%)**

Instructions:

1. Form teams of 2 for this assignment. You must use the template provided to submit your answers.
2. Submit your assignment report (not more than 4 pages) to BB Assignment Folder by 12 Jan 2020 (Sunday) 2359hrs.

Task 1

Refer to Lecture Notes: DevOps – Part 2 on CI/CD. Read the e-Learning materials on the following URL: <https://continuousdelivery.com/principles/>. Answer the following questions **in your own word**.

1. Explain the 5 principles on continuous delivery. (5 marks)
2. What problem CI is trying to solve? What practice(s) CI propose to counter the problem? (5 marks)

Task 2

Let's think how we can apply the concepts of CI/CD to your project work.

3. Configuration Management is one of the THREE pillars of continuous delivery. Use your semester project as example, identify the configuration items to achieve our goal of Reproducibility and Traceability. (5 marks)
4. **Jenkins** is a popular tool that used for CI/CD. Explain in point form how you can use it together with other tools such as Git/Github and xUnit etc. in your project to achieve CI/CD. (5 marks)

End of Assignment