COURSE 11: Collaborative Manufacturing Systems

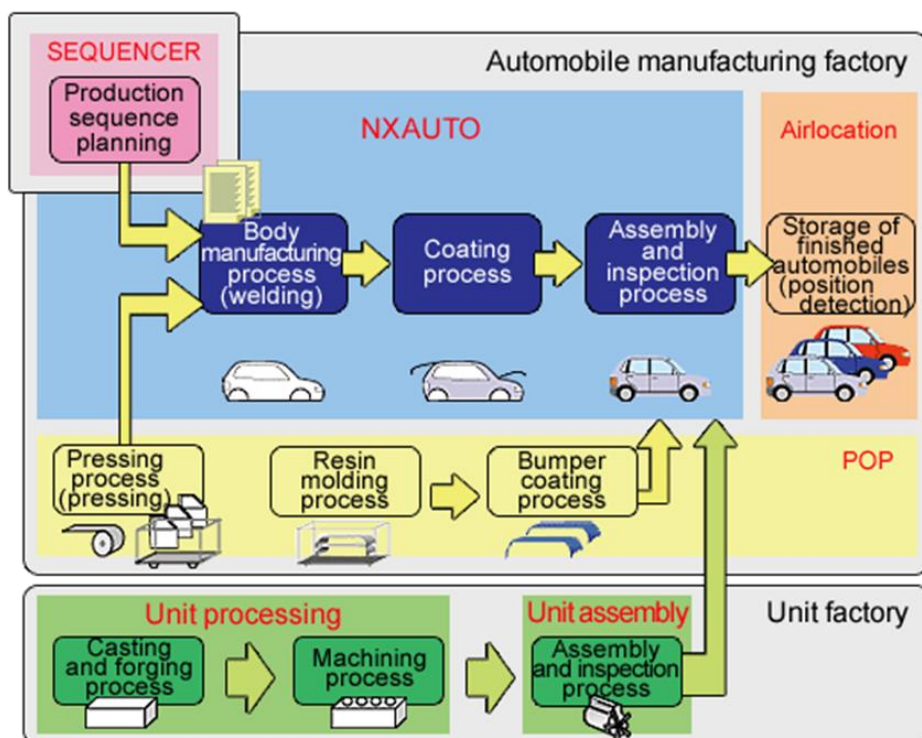Team: ....

Student's name: ....

Workshop 1 – Collaborative manufacturing management

Introduction

Collaboration among partners to form a value network has become necessary as up-to-date information is so critical in a competitive market. Sharing of information among a network of physical units on the shop floor and connecting internal manufacturing processes and business processes with external business processes allow a company to offer a core competence with flexible, responsive operations meeting the expectations of customers and the value network partners.

This workshop suppose you are production engineer in an automobile factory and the below picture shows an automobile manufacturing process.

(Source: https://www.hitachi.com/businesses/infrastructure/product_site/car/index.html)

Main Task:

Divide in teams of 2 to 4 students and prepare a presentation on the automobile manufacturing process. The presentation structure must contain the following mandatory topics:

- A value stream of the process
- Collaboration in manufacturing process
- A value network for collaborative manufacturing
- Collaborative manufacturing management (CMM)
  - CMM Requirements
  - CMM Infrastructure

For the development of your presentations use your lecture notes, the learning materials provided by your teacher, and the following:

- Collaborative Management Model (CMM) - ARC Advisory Group: www.arcweb.com

The minimum requirements regarding the delivery of your presentations are:
- Students must take turn in delivering the presentation
- Each presenting student will answer at least one question from the audience
- Each student from the auditory will ask at least one question to the presenting team
- Students should not read from the slides
- Slides should contain, pictures, graphs, tables, case studies and less text.

Evaluation will be done by the professor and by other teams. When grading a team, you should take into consideration the following criteria:

After all presentations are over and evaluation has completed, discuss with your teacher the strengths and weaknesses of your team, and find ways to improve your performance, research methods and your information synthesis methods. To make thinks clear, based on the discussions with your teacher and other teams.