Concordia Institute for Information System Engineering (CIISE)

Concordia University

INSE 6230 Total Quality Project Management

Progress Report-3

Construction of an Airport on an Island

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Project Quality Management

- To manage the quality of the project, Firstly we'll prepare the **Quality Management Plan**, then according to the QMP there will **Periodic Evaluation** to measure the overall performance of the project and finally we'll perform **Quality control**.
- To audit project conformance we'll be using **Benchmarking** which is similar to Top-down approach. We are going to compare our project with other similar airport projects which are already completed or ongoing to audit the project conformance and quality assurance procedures.
- To measure and control the Quality of Work and resulting work products we'll be using the **Seven Basic tools of Quality** and our main focus will be **Quality Control Charts** which will graphically display results of a process over time, **Histograms and Pareto Charts** which will help to represent the characteristic of problem and also prioritize the problem areas and **Flow charts** through which we'll analyze how the problems occurred and how it can be solved or improved.

Project Risk Management

- To begin with we will create a **Risk Management Plan** which includes all the approaches that we will follow if incase we encounter the risk and how we will deal with it. Then we will create **Risk Register** for identifying the risks and their characteristics, to create that we will use **Brainstorming** and **SWOT analysis** as our tools and techniques.
- Also, we will create a **Risk Breakdown Structure**, which helps us categorizing the risks. For **Qualitative Analysis** of the risk we will create **Probability/impact Matrix** and will calculate **Risk Factors**, based on the results the **Top Ten Risk Item Tracking** will be performed. For **Quantitative analysis** we will create **Decision Tree**. This will be an iterative process which helps us keep evaluating the changes in the risk factors.
- Above mentioned techniques and procedures will help us being proactive in identifying **Risk Management Activities**. And based on that for **Response Planning** we will perform **Risk Mitigation**, by reducing the probability of occurrence of the risk and increasing the project monitoring.