Module 01 - OBEI Six Sigma White Belt Introduction

Six Sigma

The name "Six Sigma" comes from the concept of statistical "sigma" (σ), which measures the variation in a process. In simple terms, Six Sigma aims for no more than 3.4 defects per million opportunities, which represents a very high level of quality.

Purpose of Six Sigma

- Process Improvement
- Quality Assurance
- Cost Reduction
- Customer Satisfaction

Key Elements of Six Sigma

- Data-Driven Decision Making
- DMAIC: This is the core process used in Six Sigma for improving existing processes. It stands for Define, Measure, Analyze, Improve, and Control.
- DMADV (Define, Measure, Analyze, Design, Verify) for new processes
- Focus on Reducing Variability

Applications of Six Sigma in Various Industries

Six Sigma's versatility makes it applicable across industries, fostering continuous improvement, cost reduction, and customer satisfaction while enabling organizations to stay competitive.

1. Manufacturing
2. Healthcare
3. Finance and Banking
4. Information Technology
5. Retail and E-commerce
6. Telecommunications
7. Logistics and Supply Chain
8. Energy and Utilities
9. Education
10. Aerospace and Defense