

## **Establishing Analysis, Design and Testing methodology As part of consulting for CMMI Level 3**

### **1.0 Overview**

The customer is a world leader in the design, manufacture, installation, testing and commissioning of signaling, communications, automation and control equipment and systems for the railway and mass transit industries. Its Indian arm is supporting the group with necessary software development for those equipment and systems. This group is part of a leading industrial group in Italy with specializations in aeronautics, helicopters, space, defence, transportation, energy and information technology.

### **2.0 Business Need**

The Indian unit decided to evolve into CMMI maturity levels so as to illustrate inherent focus on quality. This required attaining specific milestones on key process areas related to requirements, design and testing.

Applications were developed in VC++ on Windows. This was required to be migrated to Linux. New applications might be developed in Windows or Linux depending on the need. These software interacts with devices like train movement control panel.

They had already acquired software engineering tools from IBM Rational, and had undergone the tool training provided by the tool supplier.

### **3.0 Solution**

Astra has been working very closely with the customer over one year. The training was conducted on requirements, analysis, design and testing methodology. This was piloted in two projects, in one reverse engineering from existing code and in another starting from requirements, with a combination of online and offline mentoring.

### **4.0 Benefits**

Customer has been assessed at CMMI Level 3.

### **5.0 Voice of Customer**

I am pleased to inform you that we have secured CMMI maturity level 3 certification.

Thanks for your guidance and cooperation.

Software Development Division