

Failure Analysis Function

The failure analysis function can be divided into two major categories. One is “Lab Service Items ” and the other is “Internal Engineering Application”. The detailed contents are listed in Figure 1.

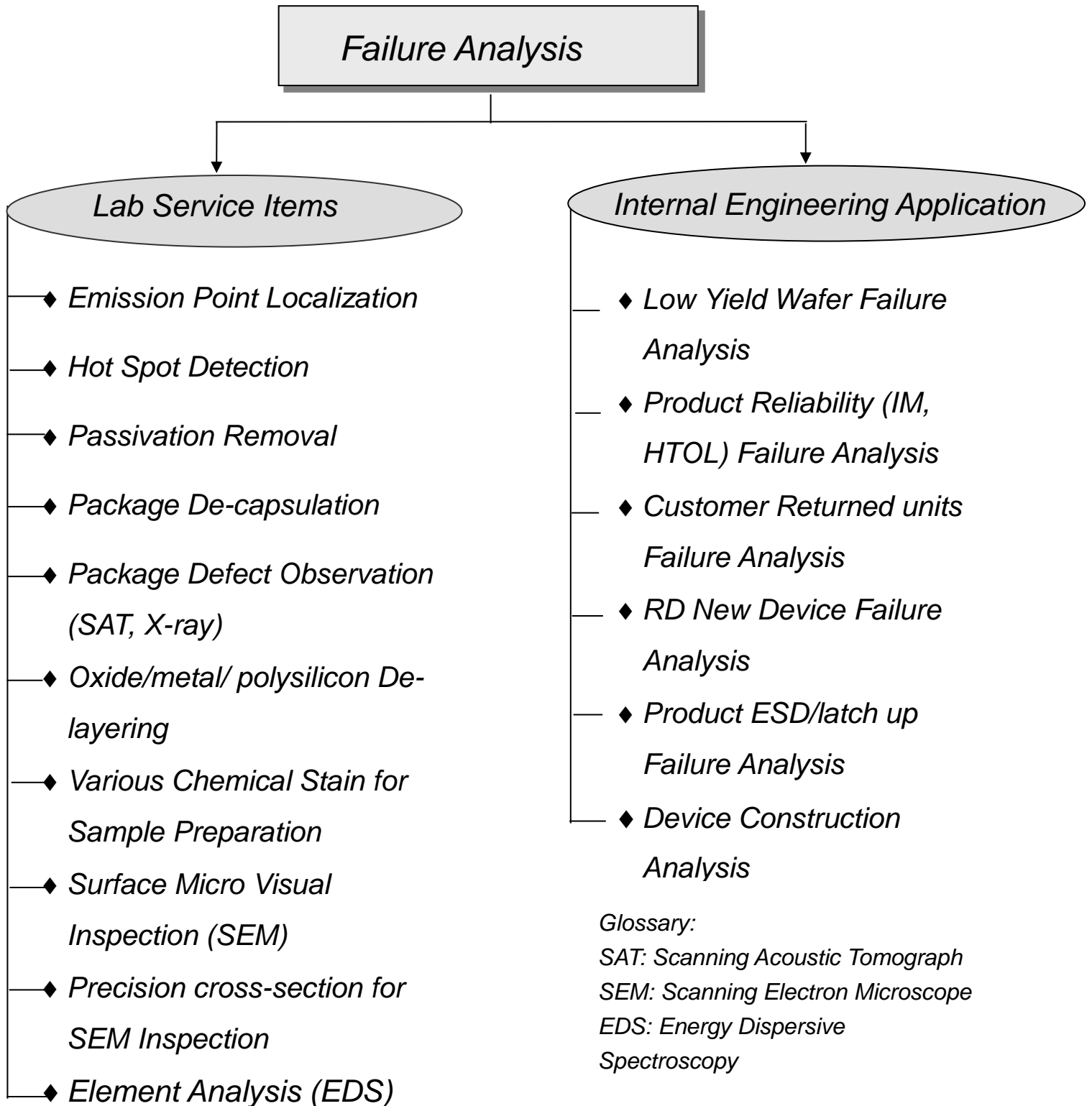
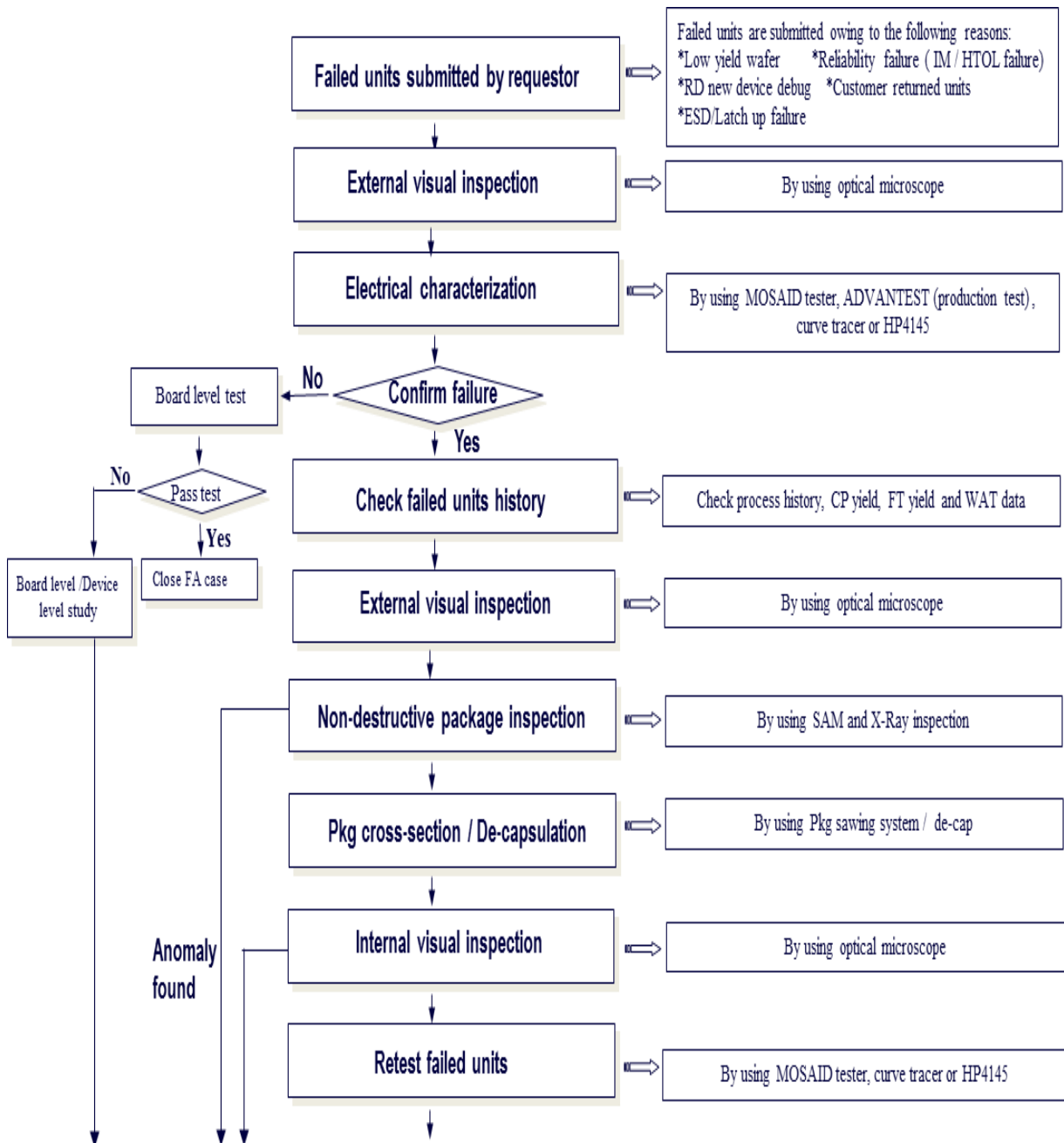
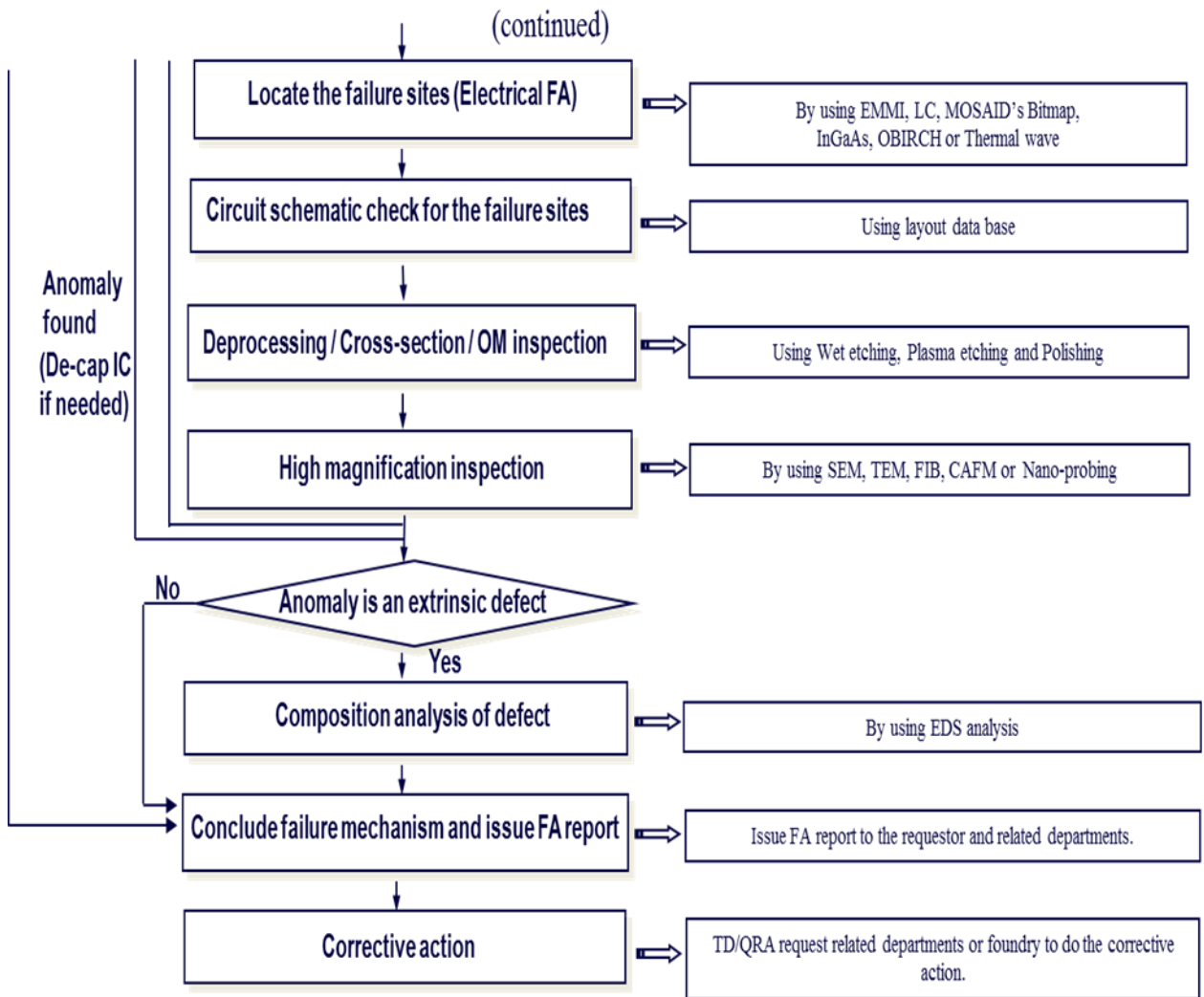


Figure 1 Failure Analysis Function

Failure Analysis Flow

A general failure analysis procedure is shown in Figure 2. The method demonstrated in the flow chart is utilized for all failure analyses.





GLOSSARY:

SAM: Scanning Acoustic Microscope
 EMMI: Emission Microscope with Si detector
 LC: Liquid Crystal
 InGaAs: Emission Microscope with InGaAs detector
 OBIRCH: Optical Beam Induced Resistance Change
 CAFM: Conductive Atomic Force Microscope

OM: Optical Microscope
 SEM: Scanning Electron Microscope
 TEM: Transmission Electron Microscope
 FIB: Focus Ion Beam
 EDS: Energy Dispersive Spectroscopy
 FA: Failure Analysis

Figure 2 Failure Analysis Flow