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| **TSC Category** | Development and Implementation | | | | | |
| **TSC Title** | Failure Analysis | | | | | |
| **TSC Description** | Examine the electrical and physical defects evidence to verify the causes of failure as well as identify the failure modes | | | | | |
| **TSC Proficiency Description** | **Level 1** | **Level 2** | **Level 3** | **Level 4** | **Level 5** | **Level 6** |
|  |  | **ICT-QUA-3002-1.1** | **ICT-QUA-4002-1.1** | **ICT-QUA-5002-1.1** |  |
|  |  | Implement failure analysis to determine if defect is caused by electrical or physical failure | Review failure analysis results and implement changes that limit and/or eliminate the causes of failure | Initiate failure analysis projects to improve organisation’s objectives |  |
| **Knowledge** |  |  | * Types of failure analysis techniques * Failure analysis tools | * Types of failure analysis techniques * Procedures for failure analysis techniques | * Failure analysis techniques * Problem solving techniques |  |
| **Abilities** |  |  | * Identify types of failure analysis techniques * Select appropriate failure analysis techniques to perform analysis * Review failure analysis results * Determine follow-up action required | * Identify appropriate failure analysis techniques * Perform failure analysis techniques * Interpret failure analysis results * Recommend follow-up actions required | * Select appropriate project that can help improve company’s objective in the context of failure analysis * Define project scope of work and the number of hours based on business requirements * Execute project in accordance with project plan * Evaluate project effectiveness in accordance with project objectives * Recommend follow up actions in accordance with organisational requirements |  |
| **Range of Application** |  | | | | | |