**SAAirline Ticketing Task 1 - Test Requirements**

1. **What kind of testing is required for the SAAirline project? Note the given software is incomplete. It only has the .dll file available for this testing project.**

**Unit testing** is required for the SAAirline project, as the software is incomplete, and only the .dll file is available for testing​.

**b. Name and describe two roles involved in the SAAirline Ticketing testing project? Describe each of these two roles with no more than 30 words.**

**1. Software Tester**: Develops test plans, design test cases, execute the unit tests, and documents the test result as test reports to identify and mitigate defects in the project.

**2. Test Manager (Jake Brown)**: Oversees/approves the testing process, provides test resources, reviews the test result report, ensures milestones are met.

1. **What testing tools would you use for conducting the type of test that you have chosen in Part a.**

I would use NUnit, a testing tool compatible with Visual Studio, to conduct unit testing on the SAAirline project​.

**d. What are the benefits of the testing type that you have identified in Part c above? (Approx. 30 words)**

**Benefits of Unit Testing**: It helps ensure individual components work correctly, simplifies debugging, and allows early detection of defects, thus improving software quality​.

**e. Name the standards being used by the testing industry for the following testing aspects:**

**Standards**:

* Testing Concepts and Definition: **ISO/IEC/IEEE 29119-1**
* Testing Documentation: **ISO/IEC/IEEE 29119-3**
* Unit Testing: **ISO/IEC/IEE 29119-4**