

## **Validation of Derived Requirements Checklist**

### **Objective DA-09: Validation of Derived Requirements and Safety Assessment**

As the developer of the Artificial Intelligence (AI) - Machine Learning (ML) software, please ensure that:

#### **1. Review Derived Requirements from a Safety Perspective**

- Have you reviewed the derived requirements to determine which safety functions they support?
- Are the failure conditions classified accordingly?

#### **2. Validate AI/ML Constituent Requirements**

- Have you captured all necessary requirements for the AI/ML constituent, including:
  - ☐ Information security (IS)
  - ☐ Ethics-based assessment (ET)
  - ☐ Development assurance (DA)
  - ☐ Data management (DM)
  - ☐ Learning management (LM)
- Are these requirements validated and compliant with relevant regulations?

#### **3. Verify Modulation of Objectives**

- Have you applied the modulation criteria (AI Level and criticality) to anticipate proportionality in the objectives?
- Are the objectives modulated accordingly, considering the limited experience gained from operations on AI/ML techniques?

As the reviewer, please ensure that:

#### **1. Verify Developer's Compliance with Derived Requirements**

- Has the developer reviewed and validated the derived requirements from a safety perspective?
- Are the failure conditions classified correctly?

#### **2. Review AI/ML Constituent Requirements for Completeness and Validation**

- Have the developer captured all necessary requirements for the AI/ML constituent, including:
  - ☐ Information security (IS)
  - ☐ Ethics-based assessment (ET)
  - ☐ Development assurance (DA)
  - ☐ Data management (DM)
  - ☐ Learning management (LM)

- Are these requirements validated and compliant with relevant regulations?

### **3. Verify Modulation of Objectives**

- Has the developer applied the modulation criteria (AI Level and criticality) to anticipate proportionality in the objectives?
- Is the modulation correct, considering the limited experience gained from operations on AI/ML techniques?

Note: This checklist is generated based on the provided reference and is intended to assist developers and reviewers in ensuring compliance with the requirement.