



APEC
Asia-Pacific
Economic Cooperation

Capacity Building Workshop On Understanding Conformity
Requirements For Software Controlled Weight And Measuring
Instruments For Sustainable Trade 2022

APEC

Self-Introduction

- Senior Researcher in National Metrology Institute of Japan (NMIJ)
- Member of Type Approval Group
 - Software Examination: Taxi Meters, NAWI, Fuel Flow Meters
- Member of Data Science Research Group
 - Research Involved in Software Verification, Software Validation, etc.



National Metrology Institute of Japan (NMIJ)

- Maintenance of measurement standards in Japan
- Type approval of measuring instruments including NAWIs, taxi meters, fuel flow meters, etc.
- One division of National Institute of Advanced Industrial Science and Technology (AIST)



Law System about Legal Metrology

1. The Measurement Law in Japan: Stipulates basic elements of legal metrology
2. Japanese Industrial Standards (JIS): Specifies technological regulations about measuring instruments
3. The Measurement Law refers to JIS standards



Organizational Structure about Legal Metrology in Japan

- Type Approval
 - JEMIC: Electrical Energy Meters, Illuminance meters, etc.
 - JQA: Noise Meters, Vibration meter, etc.
 - NMIJ: NAWs, Taxi Meters, Fuel Flow Meters, Water meters, etc.
- Verification
 - Verification Offices (in Each Prefecture and in Major Cities)
- Inspection of Verification Standards: Weights, Glass thermometers, etc.



Software Examination of Measuring Instruments

1. Taxi Meters
2. NAWs
3. Fuel Flow Meters