

# TRAINING COURSE ON NGV FUEL DISPENSERS SHAH ALAM, MALASIA

ECONOMY: PERU

ORGANIZATION: INDECOPI -

NATIONAL METROLOGY SERVICE

TRAINEE: Nikko Meza.



Asia-Pacific  
Legal Metrology Forum



Asia-Pacific  
Economic Cooperation

## LOCATION



PERU IS PART OF  
LATIN AMERICA.  
IT IS LOCATED IN  
THE OCCIDENTAL  
PART OF SOUTH  
AMERICA

# Peru is the land of the INCAS Empire



## INFORMATION

- **Country (long form)** Republic of Peru
- **Capital** Lima
- **Total Area** 1 285 215 square kilometers
- **Population** 27 483 864
- **Languages** Spanish (official), Quechua (official), Aymara
- **Religions** Christians (Catholic and others) 99 %
- **Government Type** Constitutional Republic
- **Currency** 1 Nuevo Sol (S/.) = 0,30 US\$
- **Industry** mining of metals, petroleum, fishing, textiles, clothing, food processing, cement, steel, metal fabrication
- **Agriculture** coffee, cotton, sugarcane, rice, wheat, potatoes, coca; poultry, beef, dairy products
- **Peru has the biggest biodiversity of the world**
- **Natural Resources** copper, silver, gold, petroleum, wood, fish and others

## INTRODUCTION



**INDECOPi**

- **What is your position and responsibility in your economy?**

**I am technical metrologist of Volume and Density laboratory in National Metrology Service – INDECOPi. I am in charge of the calibration service of Standard Test Measure.**

## INTRODUCTION

- **Will you be required to train others?**

**Yes, but in medium or large period, when the State decides the fiscalization of NGV service stations. At first, there will be more stations and the fiscalization office will need to buy the standards.**

- **If so, how will you train?**

**Teaching to every trainee the knowledge learned in this course.**



- **Do you have any experiences verifying fuel dispensers for petrol or LPG OR CNG ?**

**Yes, training course on verification LPG dispensers in Shanghai - China, and training course about type approvals and verification of dispensers of liquid fuels, in Paraguay three years ago**

**Have you experienced in the accuracy testing of weighing elements? If so, years or months experienced and what type of weighing elements (class, what capacity, what division)?**

**Yes, one year in scales class III and IV; capacity until 200 kg; division 50 g**

## **Use of CNG and/or NGV in my economy**

- **How many number of vehicles are powered by CNG?**

**Please give an approximate total number or a percentage to all vehicles.**

**None by CNG, the number of vehicles are powered by NGV in this moment is approximate of 19 000 vehicles**

**Who is the tipycal user of CNG/NGV in your economy? Is CNG sold to the public whithout limitation? Or is it sold to the limited companies(or organizations) under a contract who owns a fleet of vehicles(taxis;buses, trucks)?**

**The tipycal user of NGV are all the people or organizations owns vehicles that use this fuel.**

**CNG is limeted, only sold organization, industries under a contract.**

**How many CNG stations for NGV are there in your economy?  
Please give an approximate number or percentage to all  
stations**

**Approximate is, at 30 of September of 2007 the users count  
on Fifteen Stations of NGV**

**Five Stations are in construction and next to be inaugurated  
between November and December. Also other Twelve  
stations initiated their construction between June and August  
entered operation between October and December 2007**

**If CNG used for other than vehicles, please specify other  
purpose**

**CNG is used in some factories in yours machineries for the  
product transformation and thermal central too.**

## **Legal Metrological Control on CNG dispensers in my economy**

- **What are the units of measure used for CNG?**

**The units of measure used are the Liter for NGV.**

- **Are type approvals and verifications required for CNG dispensers in your economy?**

**The type approvals and verifications are not required for CNG dispensers in my economy. But in medium or large period, when the State decides the fiscalization of CNG service stations, the verifications will be required.**

**Are there any other requirements from your economy? Do you have any problems in order to implement the legal metrology system(budget; human resources; etc)**

**To implement systems of legal metrology needs to greater regulation and then increased budget and human resources.**

Thank you!

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