

FTTH Training Programs for Field Engineers

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NTT WEST Corp.

NTT Group Formation



Established in 1869, as Public company.
Incorporated in 1985 and was split into 5 major
companies in 1999.



**Regional
Communications**

**Long-Distance &
International
Communications**

**Mobile
Communications**

**System
Integration**

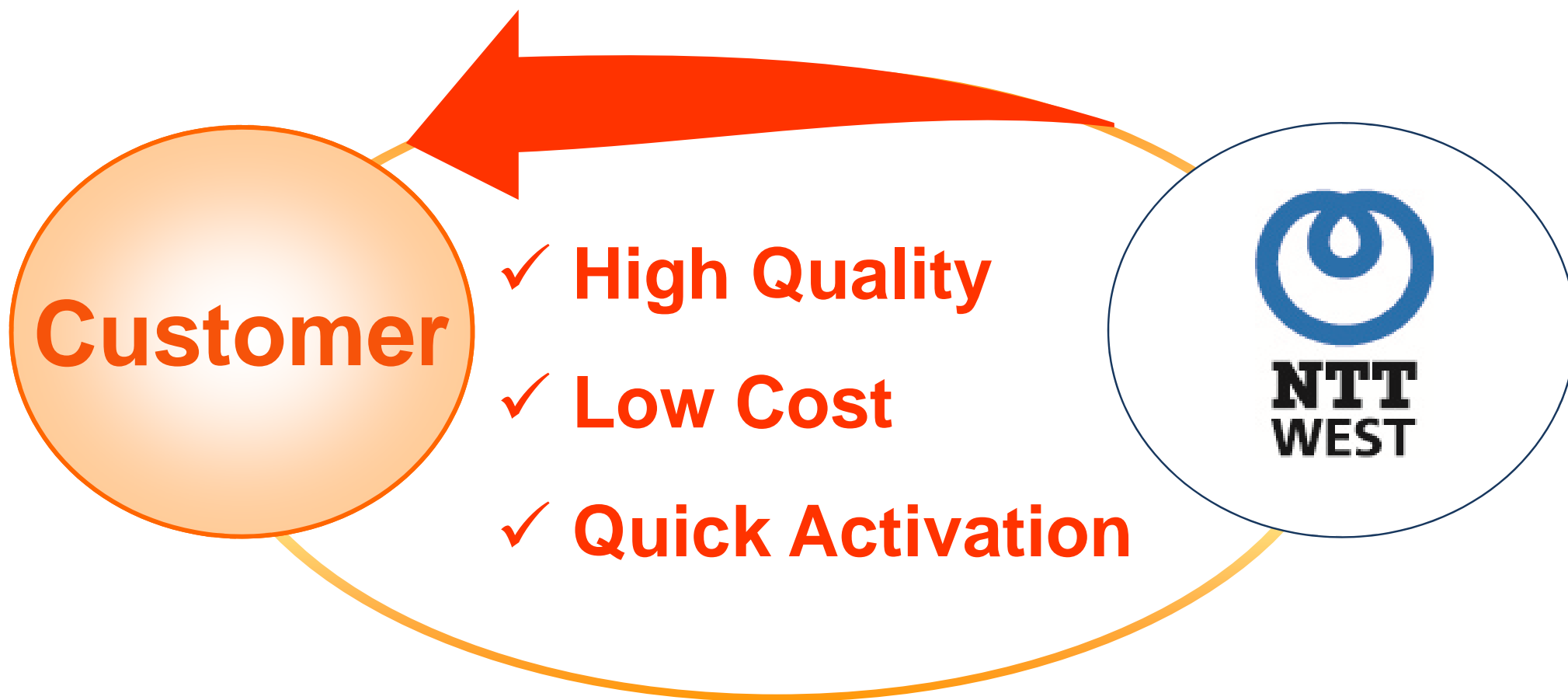


**NTT
docomo**

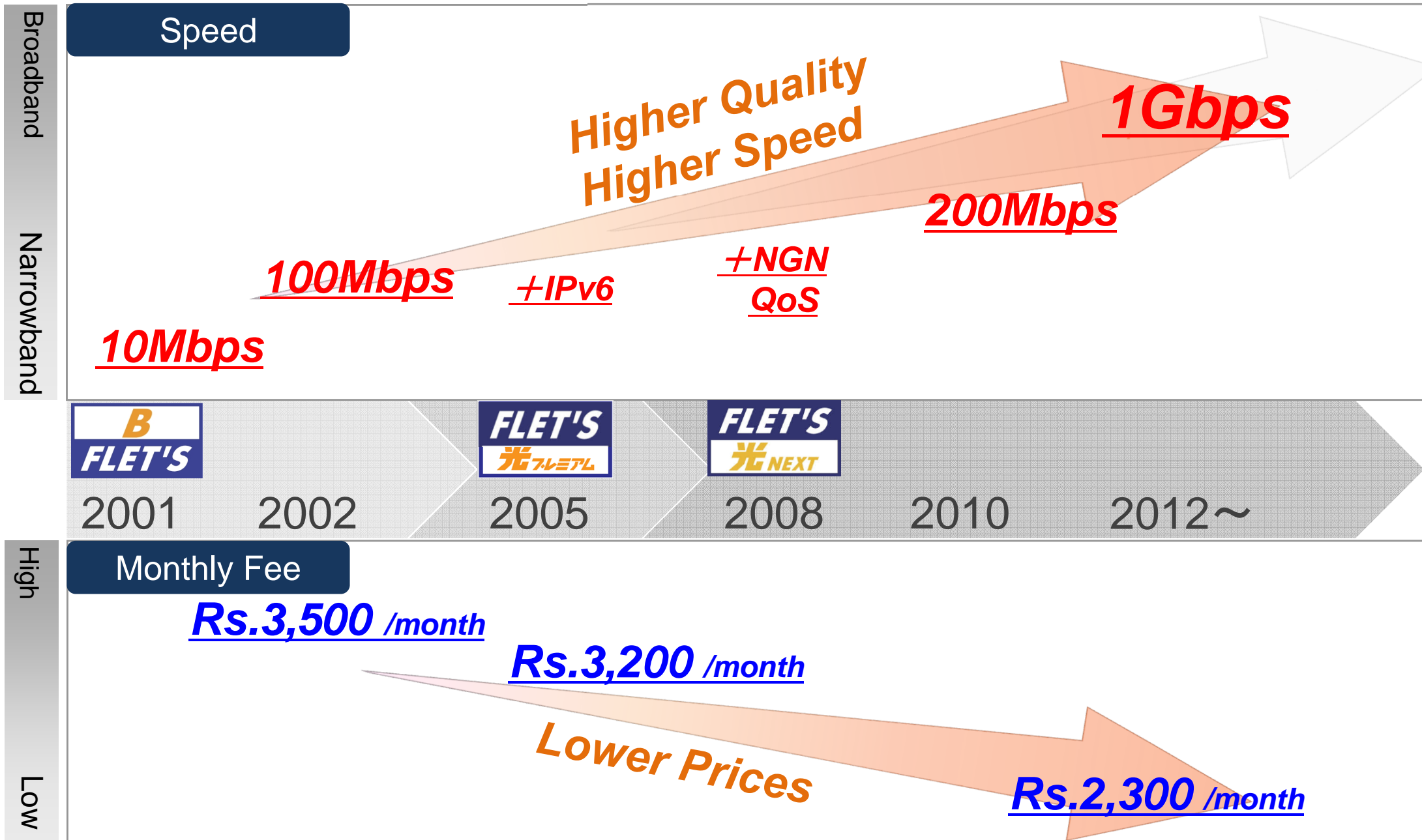
NTT Data

Our Vision

High Quality Services at a Low Cost.



Transition of NTT WEST Services



At a Street in Asia



On the pole



Installation
on the bike

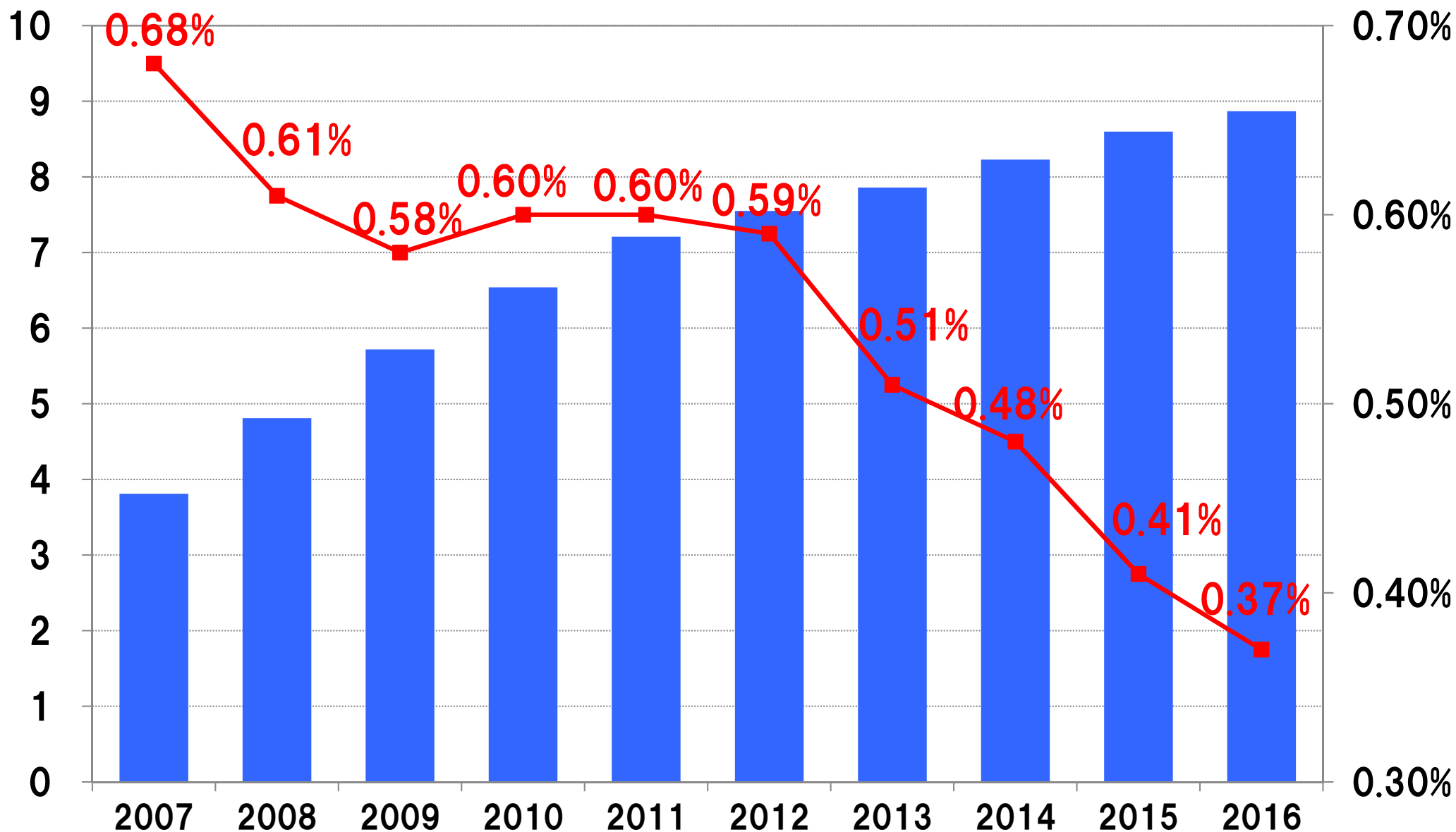


MDF of MDU

Transition of Failure Rate

Number of FTTH Subscribers
(Million)

Failure Rate



HUMAN RESOURCES DEVELOPMENT

Training Structure

Skill
Level

Internal
Certification

Training Program

SA

43
courses*

➤ Optical
Professional
Course

Knowledge

Skills

Awareness

➤ Meister's Cup
Competition

➤ KAIZEN Competition

➤ Transmission of
Veteran's Skills
(Gold Meister)

Skills

Awareness

➤ OJT
➤ Off-JT
(Group
Training)

Knowledge

Skills

Awareness

A

74
courses*

B

78
courses*

➤ e-learning

Knowledge

C

Total **195**

courses*

*As of Sep 30, 2016

Optical Professional Course

- NTT WEST has conducted this program since 2007.
- The objective is to train leaders who have wide knowledge and leadership in all processes.
- More than 100 engineers have graduated and become leaders in each branch.

1st Year

Basic Knowledge

- ✓ Acquire basic knowledge



Practical Skills 1

- ✓ Practice from planning to construction



Practical Skills 2

- ✓ OJT in branch office

2nd Year



Leadership 1

- ✓ Acquire mentoring skills to 1st year trainees as leaders

Leadership 2

- ✓ Conduct training as instructors

Meister's Cup Competition

- Annual competition for high-level technical skills



Opening ceremony



Contestants are selected by each branch office.



Judges check the technique and quality.

Gold Meister / KAIZEN

Gold Meister

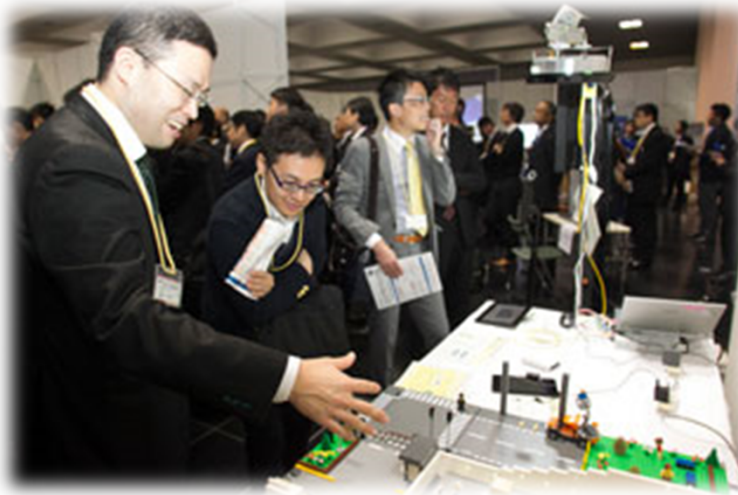


✓ Veterans pass on skills to younger generations.



KAIZEN Competition

✓ Annual competition to improve quality in various aspects of work



TRAINING PROGRAM FOR FIELD ENGINEERS

Outline of Training Program

Knowledge

★Lecture

- ✓ Basics of optical fiber
- ✓ Characteristics
- ✓ Layout of FTTH components etc.



Skills

★Practical

- ✓ Drop / Indoor Cabling
- ✓ Assembling connectors
- ✓ Installation in actual sites(OJT) etc.



Awareness

★Awareness building

- ✓ Keeping discipline
- ✓ Chanting a slogan in unison
- ✓ Confirming a goal
- ✓ Safety education
- ✓ Importance of teamwork etc.



Certified by



Training Results



✓ Basic knowledge understanding

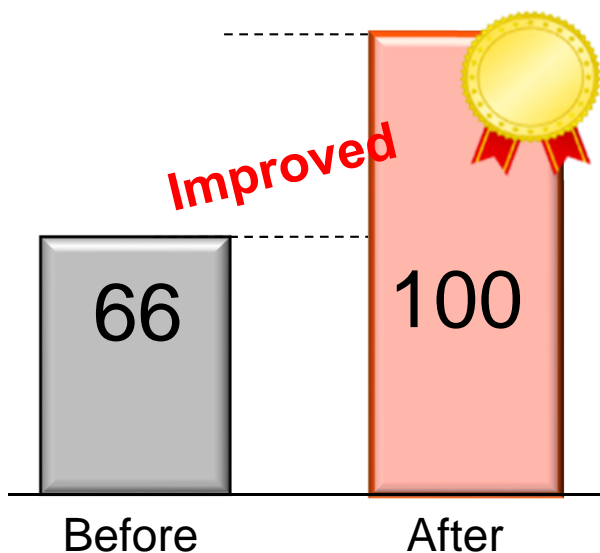


✓ Proper treatment

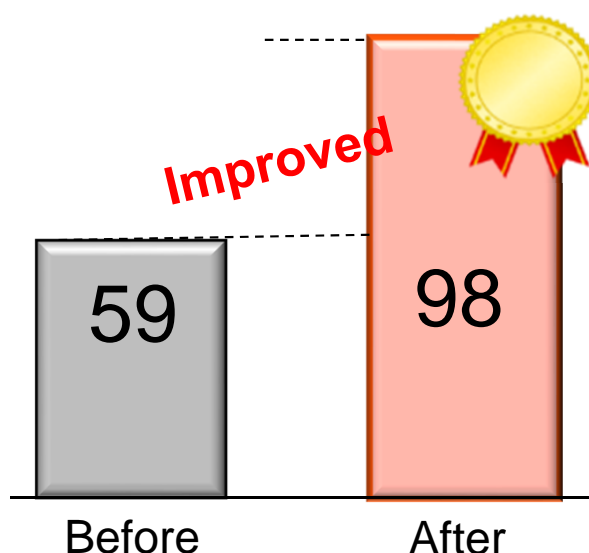


✓ Proper disposal

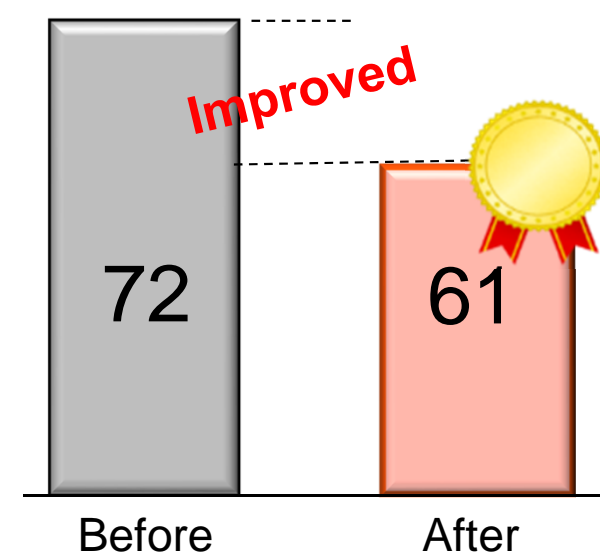
Knowledge (Ratio)



Technical Skills (Ratio)



Speed (Minutes)



Training Results

Before



Inappropriate location of a drop cable in a closure



Good !



Fiber cable is pinched by S-clamp



Good !



High-place work Without a safety belt



Good !

After



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