



International Labour Organization
Organisation internationale du Travail
Organización Internacional del Trabajo

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Advanced Level Training for Master Trainers in the Automotive and ICT Sectors

Korea University of Technology and Education
Chungcheongnam-do Campus

Republic of Korea
4-15 December 2017

Supported by the ILO/Korea Partnership Programme

PROGRAMME DESCRIPTION

A. Background

In October 2016, the “ILO/Korea TVET Forum on Jobs, Skills and Strategies for the Future: Perspective from Asia and the Pacific” (Forum) provided an opportunity for experts in the field to hold substantive debate and share work in the area of jobs and skills for the future in the Asia and the Pacific region. The Forum examined the key reform initiatives taken by the Member States and development partners to make skills systems ready to meet the future demands of skills. Altogether, the Forum contributed to shaping the current thinking, agenda and strategies for skills development as it is essential for building an inclusive future with decent work. And in December 2016, the subject of *Skills for the Future* was taken up as one of five key panel discussions during the 16th Asia-Pacific Regional Meeting (APRM) in Bali, Indonesia. While reaffirming the importance of tri-partism and urging increased efforts on public and private partnerships in skills development, the rich panel discussion at the APRM shed light on how Member States can prepare themselves for meeting future skill challenges.

In line with the above and the “Skills and the Future of Work” initiative, the government of Korea introduced a plan to launch a new programme starting from 2017 in providing TVET training courses for policy makers and trainers from the Asia and the Pacific region. Additionally, the ILO/Korea Partnership Programme has made available an opportunity for the ILO to team up with KOREATECH (Korea University of Technology and Education) to explore areas of collaboration and pilot modern and advanced-level training modality to selected countries in the Asia and the Pacific region.

The ILO and KOREATECH are collaborating to provide high quality training with advanced technology courses in the automotive and ICT (Information, Communications and Technology) sectors over a two weeks period in November 2017.



B. Objectives

The objective is the sharing of knowledge and information enabling policymakers to shift its skills systems to be in sync with future market demand and produce quality women and men workers from a demand-led TVET system.

It is envisaged that an opportunity to learn from the advanced TVET training curriculums in the automotive and ICT sectors will result in the production of workers with more advanced skills that meet industry demands and assist in the respective sectors' for value chain upgrading.

It is anticipated that the Master Trainers from the participating countries will then further apply the training methodology in their respective countries.

C. Target Participants

The **Master Trainers** from the: (a) directorate of training within the respective country's ministry of labour; (b) government owned/run technical/vocational and training institution; and (c) employers' organization from the countries listed below and per training course:

- India,
- Indonesia,
- Philippines,
- Thailand, and
- Vietnam.

There will be three representatives from each country per training courses, all together the number of participants will reach 30 persons for both courses.

These countries were selected from the Asia and the Pacific region based on their expressed demands for advanced and high-technology training course in both the automotive and ICT industries; KOREATECH's existing institutional exchange arrangement with local institutions (hence, facilitating any follow-up courses and sustainability); and on-going national dialogue on the "Future of Work".

D. Outline of the Training

Both training courses will be implemented by KOREATECH at its campus in Chungcheongnam-do, in the Republic of Korea. The training courses will commence on 4 December and end on 15 December 2017. The participants are anticipated to arrive in Incheon, Korea in the morning of 3 December and depart in the late afternoon of 16 December 2017. Both courses will be delivered in English.



E. Training Syllabus - ICT (Java Basic and Arduino based IOT Application Programming)

Title	Details
Java Programming Basic Skill	<ul style="list-style-type: none"> - Date Types and Operators - Conditional statements, loop statements - Array, Class - Methods, inheritance, polymorphism - AWT, Multi-thread
Arduino Based IOT Application Programming	<ul style="list-style-type: none"> - Overview of Arduino - Arduino Digital I/O - Arduino Analog I/O

F. Training Syllabus - Automotive

Title	Details
Hybrid Automobile Basic & Diagnostics	<ul style="list-style-type: none"> - HEV definition and classify - HEV structure and characteristics - PRIUS(made in Japan) Hybrid system characteristics - AVANTE & SONATA(made in Korea) Hybrid system characteristics - Diagnostics skill for Hybrid vehicles - OBD systems - Diagnostics circuit and code analysis - Usage for diagnostic scanner, GDS, SW - Diagnostics trouble shootings - HCU/ECU basic practice - HCU/ECU diagnostics practice

G. Tentative Schedule

Week	Date	Time	Contents	Remarks
	Sun(3, Dec)	pm	13:00~	Immigration into airport Move to KOREATECH
	Mon(4)	am	09:00~11:00	Campus tour KOREATECH MAIN CAMPUS
			11:00~12:00	Orientation(1)-general Guidance for general things
		lunch	12:00~14:00	Welcoming Incheon Buffet
		pm	14:00~17:00	Orientation(2)-training course Discussion about learning contents between instructor and trainers
	Tue(5)	am	09:00~12:00	Technical training -Breakfast: 07:40~08:40
		pm	14:00~17:00	Technical training -Lunch: 12:00~13:30
	Wed(6)	am	09:00~12:00	Technical training -Dinner: 17:30~18:30
		pm	14:00~17:00	Technical training
	Thu(7)	am	09:00~12:00	Technical training -Training time(6-hour per day)
		pm	14:00~17:00	Technical training -Training contents



	Fri(8)	am	09:00~12:00	Technical training	.It would be progressed with the contents which was introduced on syllabus before. .But after OT, with reflection of trainer's opinions, contents could be changed or modified in some range.
		pm	14:00~17:00	Technical training	
	Sat(9)	Whole day		Korean culture trip	Seoul city tour
	Sun(10)	Whole day		Relax / break	Guest house
Week	Date	Time		Contents	Remarks
2	Mon(11)	am	09:00~12:00	Technical training	-Breakfast: 07:40~08:40 -Lunch: 12:00~13:30 -Dinner: 17:30~18:30
		pm	14:00~17:00	Technical training	
	Tue(12)	am	09:00~12:00	Technical training	-Training time(6-hour per day) -Training contents
		pm	14:00~17:00	Technical training	
	Wed(13)	am	09:00~12:00	Technical training	.It would be progressed with the contents which was introduced on syllabus before.
		pm	14:00~17:00	Technical training	
	Thu(14)	am	09:00~12:00	Technical training	.But after OT, with reflection of trainer's opinions, contents could be changed or modified in some range.
		pm	14:00~17:00	Technical training	
	Fri(15)	am	09:00~12:00	Technical training	Evaluation for training course
		pm	14:00~17:00	Evaluation for training course	
			18:00~21:00	Sending off ceremony	
	Sat(16)	Whole day		Departure	Move to airport

