



MINISTRY OF ENVIRONMENT AND FORESTRY  
HUMAN RESOURCE EXTENSION AND DEVELOPMENT AGENCY  
**ENVIRONMENTAL AND FORESTRY HUMAN RESOURCE TRAINING CENTER**

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DECISION

HEAD OF ENVIRONMENTAL AND FORESTRY HUMAN RESOURCE TRAINING CENTER

NUMBER 67 OF 2024

ABOUT

TRAINING CURRICULUM

NATIONAL FOREST INVENTORY IMPLEMENTERS

HEAD OF THE CENTER,

Considering: a. that in order to obtain data on potential forest resources through a national forest inventory, data and information are required that at least include land cover, types and potential of forest stands and types, potential and distribution of non-timber plants as stated in Article 6 paragraph (3) of the Regulation of the Minister of Environment and Forestry Number 7 of 2021 concerning Forestry Planning, Changes in Forest Area Designation and Changes in Forest Area Functions;

b. that in the context of implementing the national forest inventory, it is necessary to increase competency to prepare technical personnel for the national forest inventory;

c. that in order to prepare human resources who have the knowledge and skills as stated in dictum a and b, it is necessary to provide knowledge and skills and develop attitudes through National Forest Inventory Implementation Training;

d. that in order to achieve the objectives in dictum a, b and c, it is necessary to establish a training curriculum for National Forest Inventory Implementers by Decree of the Head of the Center for Environmental and Forestry Human Resources Training;

Remember :

1. Law No. 41 of 1999 concerning Forestry in conjunction with Republic of Indonesia Law No. 19 of 2004 concerning the stipulation of Government Regulation in Lieu of Law No. 1 of 2004 concerning amendments to Law No. 41 of 1999;
2. Republic of Indonesia Law no. 6 of 2023 concerning Stipulation of Government Regulations in Lieu of Law no. 2 of 2022 concerning Job Creation Becoming Law;

2. Government Regulations.....

3. Government Regulation of the Republic of Indonesia No. 12 of 2010 concerning Research and Development and Forestry Education and Training;
4. Government Regulation of the Republic of Indonesia No. 23 of 2021 concerning Forestry Implementation;
5. Regulation of the Minister of Environment and Forestry No. P.9/MENLHK/SETJEN/KUM.1/3/2019 concerning the Implementation of Education and Training for State Civil Apparatus and Non-State Civil Apparatus in the Field of Environment and Forestry;
6. Regulation of the Minister of Environment and Forestry Number 7 of 2021 concerning Forestry Planning, Changes in Forest Area Designation and Changes in Forest Area Function, and Use of Forest Areas;
7. Regulation of the Minister of Environment and Forestry Number 15 of 2021 concerning the Organization and Work Procedures of the Ministry of Environment and Forestry;
8. Regulation of the Head of the Human Resources Extension and Development Agency No. P.11/P2SDM/SET/DIK.2/ 2017 concerning Guidelines for Curriculum Preparation;
9. Regulation of the Head of the Agency for Extension and Human Resources Development LHK Number P.3/PSDM/Set/OTL.0/4/2020 concerning Education and Training for State Civil Apparatus and Non-State Civil Apparatus in the Field of Environment and Forestry using Distance Methods electronically;
10. Decree of the Head of the Center for Environmental and Forestry Human Resources Training No.SK.177/Dik/Pepe/Kum/6/2019 concerning Technical Instructions for Implementing Training Using the E-Learning Method (*Blended Learning*).

#### DECIDE

To stipulate: DECISION OF THE HEAD OF THE ENVIRONMENTAL HUMAN RESOURCES TRAINING CENTER  
LIFE AND FORESTRY ABOUT TRAINING CURRICULUM  
NATIONAL FOREST INVENTORY IMPLEMENTERS

FIRST : National Forest Inventory Implementation Training Curriculum  
as attached is an integral part of this decision;

SECOND.....

- SECOND : The training curriculum as stated in the FIRST dictum is used as a reference in organizing the Implementation Training National Forest Inventory within the Ministry Environment and Forestry;
- THIRD : With the stipulation of this decision, the Decree of the Head of the Forestry Training Center Number SK. 40/Dik-2/2012 concerning the TSP/PSP Enumeration and Re-enumeration Training Curriculum is declared no longer valid;
- FOURTH: This decision is valid from the date of stipulation and if in the future there are errors in the stipulation, it will be changed and corrected as appropriate.

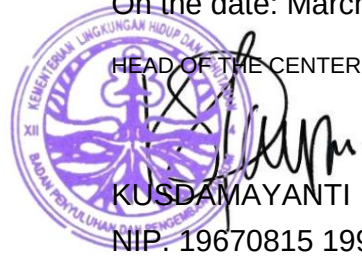
Established in: Bogor

On the date: March 15, 2024

HEAD OF THE CENTER,

KUSDAMAYANTI

NIP. 19670815 199203 2 002



Attachment to the Decision of the Head of the Center for Environmental and Forestry Human Resources Training  
Number: 67 of 2024

Date: March 15, 2024

**1. Training Name: National Forest Inventory Implementer**

**2. Level : Base**

### **3. Background**

Indonesia is blessed with the largest tropical forest area in the world after Brazil and the Democratic Republic of Congo. For decades, Indonesia's tropical forests have served as a producer of timber and non-timber products. Forest utilization for timber production is regulated based on the principle of sustainability. A sustainable forest management system requires accurate data and information on the quantity and quality of potential exploitable forest stands.

Information on forest potential is obtained from the results of forest inventory.

This is reinforced by the Regulation of the Minister of Environment and Forestry Number P.7 of 2021 concerning Forestry Planning, Changes in the Designation and Function of Forest Areas and the Use of Forest Areas, Article 6 paragraph (3) states that the national level forest inventory must at least include data and information on land cover, types and potential of forest stands and types, potential and distribution of non-timber plants.

Besides providing timber, tropical forests also play a vital role in maintaining global climate stability due to their ability to absorb carbon dioxide emissions from the atmosphere. Therefore, a sustainable forest management system is required.

A forest inventory that can meet the data/information needs to support emissions reduction efforts. Through the forest inventory, it is hoped that information on forest potential, both timber and non-timber, can be identified quickly and accurately using accountable methods that align with reporting needs, available resources, and capacity.

Indonesia began conducting a national forest inventory between 1989 and 1996, primarily to estimate timber potential in state forest areas. However, the need for forest resource information is increasing and extends beyond timber potential. For example, reporting emissions reductions at the national and global levels requires information on biomass and carbon stocks across various land cover types. Furthermore, Government Regulation No. 23/2021 mandates the Ministry of Environment and Forestry (KLHK) to conduct a national forest inventory not only in state forest areas but also in privately owned and customary forests. To this end, in 2022-2023, the Ministry of Environment and Forestry (cq. the Directorate of Forest Resource Inventory and Monitoring) will collaborate with

*The Food and Agriculture Organization (FAO)* has developed a new, more efficient national forest inventory system to be implemented from 2025.

To support the implementation of the national forest inventory, competent and skilled human resources (HR) are required. Therefore, it is necessary to improve the knowledge and skills of environmental and forestry HR through National Forest Inventory Implementation Training using adaptive learning methods.

#### **4. Brief Description of Training**

This training aims to equip environmental and forestry personnel and/or other agencies, both civil and non-civil servants, with skills in forest inventory. The learning process utilizes a heutagogical approach. For effective learning, the teaching process is conducted through *team teaching*.

The substantive learning materials in this training include Policies/Regulations related to National Forest Inventory; Implementation of K3; Introduction to Flora Types; Measurement of Tree, Bamboo, Rattan and Liana Dimensions; Planning of National Forest Inventory; Implementation of National Forest Inventory and Reporting of National Forest Inventory Data Results.

The learning method consists of 3 (three) schemes that can be selected for the implementation of training, namely: 1) *full classical*; 2) *full e-learning*; and 3) *blended-learning*. The *full classical* scheme is carried out face-to-face in class and in the field. The *full e-learning* scheme is carried out using *synchronous* learning techniques (via *teleconference and live chat*) and *asynchronous* (through independent reading of electronic modules/teaching materials, discussion forums and

assignments/quizzes). Meanwhile, the *blended-learning* scheme is implemented in two phases: online (both *synchronous* and *asynchronous*) and face-to-face (TM). The implementation mechanism and arrangement of Training Hours (JP) are regulated in the learning scenario and training schedule.

Evaluation in this training is carried out on each theoretical and practical content through quizzes, assignments, and simulations. Additionally, at the end of the training, a comprehensive evaluation/exam will be conducted for participants, consisting of cognitive tests, case studies, or comprehensive exams.

#### **5. Training Objectives**

After completing this training, participants will be able to carry out a national forest inventory.

## 6. Training Objectives

After attending this training, participants will have competencies in:

- a. Explain policies/regulations related to national forest inventory;
- b. Implementing K3 in work;
- c. Identifying flora types;
- d. Measuring the dimensions of trees, bamboo, rattan and lianas;
- e. Carrying out national forest inventory planning;
- f. Conducting a national forest inventory; and
- g. Reporting data on the results of national forest inventories.

## 7. Training Target Group

- a. Number of participants: maximum 40 people per class
- b. Origin of Participants : ASN and Non-ASN within the scope of the Directorate General Forestry Planning and Environmental Management with its UPT, the Department that handles forestry in the Province, Universities, Forest Utilization Business Licensing and other related agencies
- c. Participant Requirements:
  - Minimum education of high school/equivalent with work experience in forestry field for at least 2 years.
  - Maximum age 50 years.
  - Physically and mentally healthy as stated by a doctor's letter.
  - Able to operate laptop and *smartphone*.
  - Able to use supporting devices for learning methods (measurement, distance learning).
  - Assigned by the sending agency as stated in the letter Task.
  - Never attended the same training.

## 8. Teacher

- a. Teacher requirements:
  - Master the material to be taught and/or have extensive experience and insight in the field of training subjects being taught;
  - Able to deliver material in a *team teaching manner*;
  - Master and be able to apply people's learning methodology mature;
  - Master and be able to apply learning methods

classical, distance learning (*e-learning*) or a combination of classical and distance *learning (blended learning)*;

- Able to create and deliver modules and/or materials interactive learning;
- Able to evaluate and provide recommendations on learning outcomes, both classical learning, distance learning and *blended learning*.

**b. Origin of Teacher:**

- Widyaaiswara of the Center for Environmental Human Resources Training and Forestry and/or Environmental Training Center and Forestry;
- Officials/staff from other relevant agencies;
- Forest inventory practitioner/expert.

**9. Training Organizers and Venues**

Training is conducted by the LHK Human Resources Training Center, the LHK Training Center, and/or other agencies deemed to meet training requirements. For classical learning, participants are placed in representative locations for both theoretical and practical learning. Field practice requires a forest location with a complete ecosystem, with stand structures representing dryland forest ecosystems, mangrove forest ecosystems, and tree ecosystems outside forest areas (*Trees Outside Forest - TOF*).

For distance learning, participants are at their respective domiciles, either individually or in groups at a representative location.

**10. Training Time**

The training was conducted for 60 Lesson Hours (JP) @ 45 minutes consisting of 20 JP for theoretical learning and 40 JP for practical learning.

**11. Training Equipment and Materials**

**a. Training Participant Needs:**

• In *e-learning* training, participant needs include adequate internet network (data package), virtual classroom on LMS, electronic teaching materials (modules/teaching materials, broadcast materials and relevant learning videos) and other relevant needs to support the smooth running of the learning process.

• In classical training, participants' needs include writing equipment, teaching materials (modules/teaching materials,

relevant teaching materials and videos), training guides, equipment and field practice materials.

• Adequate classrooms for classical learning activities, stable internet network, markers, *post-its*, metaplanes, HVS/A4 paper, folders, etc.

• Participant identity (*name tag*) in classical learning.

b. Need for Teachers/Tutors/Instructors:

• In *e-learning* training, the needs of teachers include virtual classes on LMS, stable internet networks (data packages), long-distance *digital audio* and *visual* communication devices, *e-learning* teaching equipment (*headsets*, lighting equipment) and other relevant needs to support the achievement of learning objectives.

• In classical training, the teacher's needs include a *whiteboard* and markers, computer/laptop and LCD *projector*, *flipchart*, flipchart paper, and other relevant needs to support the achievement of learning objectives.

c. Organizer: adapt to the learning system.

## 12. List of Training Subjects

| No | Training Eyes                                                           | Training Hours (JP) |              |           |
|----|-------------------------------------------------------------------------|---------------------|--------------|-----------|
|    |                                                                         | Theory (T)          | Practice (P) | Total     |
| 1. | Training Program Orientation                                            | 1                   | -            | 1         |
| a  | Training Atmosphere and Internalization of ASN <i>Core Values</i> Moral | -                   | 2            | 2         |
| 3. | Policies/Regulations regarding National Forest Inventory                | 3                   | -            | 3         |
| 4. | Application of K3                                                       | 1                   | 1            | 2         |
| 5. | Introduction to Flora Types                                             | 2                   | 4            | 6         |
| 6. | Measurement of Tree and Bamboo Dimensions Rattan and Liana              | 2                   | 4            | 6         |
| 7. | Forest Inventory Planning National                                      | 2                   | 4            | 6         |
| 8. | Implementation of Forest Inventory National                             | 8                   | 22           | 30        |
| 9. | Reporting of Inventory Results Data National Forest                     | 1                   | 3            | 4         |
|    | <b>Amount</b>                                                           | <b>20</b>           | <b>40</b>    | <b>60</b> |

## 13. National Forest Inventory Implementer Training Syllabus

| No. | Training Subject                                                                | JP  |     |   | Learning Outcome Indicators                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Subject matter<br>Discussion/<br>Skills                                                                                                                                                                                                                                                                                                                                | a. Method<br>b. Learning Aids                                                                                                                                                                                                                                                                                                                                                                                                             | Source<br>Literature                                                                                                                                 |
|-----|---------------------------------------------------------------------------------|-----|-----|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                                                                 | TP  | JML |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                      |
| 1.  | Training Program Orientation                                                    | 1   | -   | 1 | After following the eyes<br>In this training, participants can:<br>1. Explain the training program<br><br>2. Explain the training flow                                                                                                                                                                                                                                                                                                                                                                                     | 1. Training program<br>Training Flow                                                                                                                                                                                                                                                                                                                                   | <b>Online</b><br>a. Method: Teleconference lecture, Q&A, discussion.<br><br>b. Tools/Materials: LMS, presentation materials (electronic), laptop/computer/smartphone, camera, microphone, headset, internet network, etc.<br><b>Offline</b><br>a. Method:<br>Lecture, Q&A, discussion.<br>b. Tools/Materials:<br>Display materials (electronic), laptop/computer, LCD, whiteboard, markers                                                | Training guide                                                                                                                                       |
| 2.  | Foster a Training Atmosphere and Internalize the Core Values of ASN with Morals | - 2 |     | 2 | following the character's eyes of<br>In this training, participants can: the participants;<br>in the training: 1. Get to know each other; other;<br>Reflecting on expectations in participating in training;<br>3. Electing the House of Representatives Participant.<br>4. Explain the background of the ASN Core Value of Morals<br>5. Explain the ASN Moral Internalization Index<br>6. Explain the stages Strengthening a Moral Work Culture<br><br>7. Explain affirmations, code of ethics, and the keyword BerAKHLAK | 1. Self-introduction and After<br>2. Expectations from participating<br>3. Election of the Board 2.<br>Participant Representatives.<br>4. Core background<br>Value of Civil Servants with Morals<br>5. Internalization Index<br>Civil Servant Morality<br>6. Stages of Strengthening a Moral Work Culture<br>7. Affirmation, Code of Ethics, and the keyword BerAKHLAK | <b>Online</b><br>a. Methods: Teleconference lectures, Q&A, discussions, video shows, fun games<br><br>b. Tools/Materials: LMS, presentation materials (electronic), laptop/computer/smartphone, camera, microphone, headset, internet network, etc.<br><b>Offline</b><br>a. Methods: Lectures, Q&A, discussions, video shows, fun games.<br>b. Tools/Materials: Display materials (electronic), laptop/computer, LCD, whiteboard, markers | Training guide.                                                                                                                                      |
| 3.  | Policies/Regulations regarding National Forest Inventory                        | 3   | -   | 3 | After taking this training course, participants will be able to:<br>1. Explain the policy National Forest Inventory<br>2. Explain the flow of implementation of the National Forest Inventory                                                                                                                                                                                                                                                                                                                              | 1. National Forest Inventory Policy<br>2. Implementation flow<br>Forest Inventory<br>National Benefits of IHN data and information                                                                                                                                                                                                                                     | <b>Online</b><br>a. Method: Teleconference lecture, Q&A, discussion, video presentation<br>b. Tools/Materials: LMS, presentation materials (electronic), laptop/computer/smartphone, camera, microphone, headset, internet network, etc.                                                                                                                                                                                                  | UUUK<br><br>Government Regulation No. 23/2020<br>Minister of Environment and Forestry<br><br>Regulation No. 7/2021<br>Related technical instructions |

| No. | Training Subject                                            | JP |     |   | Learning Outcome Indicators                                                                                                                                                                                                                                                                                                                                               | Subject matter<br>Discussion/<br>Skills                                                                                                                            | a. Method<br>b. Learning Aids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Source<br>Literature                                                                                |
|-----|-------------------------------------------------------------|----|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|     |                                                             | TP | JML |   |                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                     |
|     |                                                             |    |     |   | 3. Explain the benefits of IHN data and information                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                    | <b>Offline</b><br>a. Method: Lecture, Q&A, discussion, video presentation<br><br>b. Tools/Materials: Display materials (electronic), laptop/ computer, LCD, whiteboard, markers                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                     |
| 1.  | Implementation of K3                                        | 1  | 1   | 2 | After taking this training course, participants will be able to:<br>1. Explain the regulations/guidelines for K3 protection in the workplace as needed.<br><br>2. Identify sources hazards in the work area according to procedures<br><br>3. Explain how to use personal protective equipment appropriately according to procedures<br><br>4. Implement jungle survival. | 1. K3 protection regulations/ guidelines.<br>2. Identify the source of danger.<br><br>3. Use of Tools<br>Personal Protective Equipment (PPE)<br>4. Jungle Survival | <b>Online</b><br>a. Methods: Teleconference lectures, Q&A, discussions, video presentations, independent practice<br><br>b. Tools/Materials: LMS, presentation materials (electronic), laptop/computer/smartphone, camera, microphone, headset, internet network, etc.<br><br><b>Offline</b><br>a. Methods: Lectures, Q&A, discussions, video shows, simulations, practice<br>b. Tools/Materials: Presentation materials (electronic), laptop/ computer, LCD, whiteboard, markers, practice materials                                                                         | Law No. 1 of 1970<br><br>K3 Guide                                                                   |
| 5.  | Introduction to Flora Types                                 | 2  | 4   | 6 | After following the eyes<br>In this training, participants can:<br>1. Explain how to recognize types of flora<br><br>2. Understand the key to determining plants<br><br>3. Estimating the specific gravity class.<br>• Making a herbarium                                                                                                                                 | 1. Introduction to types of flora<br>2. Key to plant determination<br><br>3. Estimation of Weight Class b. Tools/<br>making                                        | <b>Online</b><br>a. Methods: Teleconference lectures, Q&A, discussions, video presentations, independent practice<br><br>Materials: LMS, presentation materials Types of plants. (electronics), laptop/computer/ Herbarium smartphone, camera, microphone, headset, internet network, practice materials (adjustable), etc.<br><br><b>Offline</b><br>a. Methods: Lectures, Q&A, discussions, video shows, simulations, practice<br>b. Tools/Materials: Presentation materials (electronic), laptop/ computer, LCD, whiteboard, markers, practice materials (adjustable), etc. | Minister of Environment and Forestry<br><br>Regulation No. 7/2021<br>Related technical instructions |
| 6.  | Measuring the Dimensions of Trees, Bamboo, Liana and Rattan | 2  | 4   | 6 | After following the eyes<br>In this training, participants can:<br>1. Conduct an introduction to forest inventory measuring tools<br>2. Take measurements                                                                                                                                                                                                                 | 1. Introduction to Forest Inventory Measuring Tools<br>2. Dimensional measurements for trees 3.<br>Dimensional measurements                                        | <b>Online</b><br>a. Methods: Teleconference lectures, Q&A, discussions, video presentations, independent practice<br><br>b. Tools/Materials: LMS, exposure materials                                                                                                                                                                                                                                                                                                                                                                                                          | Minister of Environment and Forestry<br><br>Regulation No. 7/2021<br>Related technical instructions |

| No. | Training Subject                            | JP |     |    | Learning Outcome Indicators                                                                                                                                                                                                                                                                                                                                                        | Subject matter<br>Discussion/<br>Skills                                                                                                                                                                                                                         | a. Method<br>b. Learning Aids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Source<br>Literature                                                                         |
|-----|---------------------------------------------|----|-----|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|     |                                             | TP | JML |    |                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                              |
|     |                                             |    |     |    | dimensions for tree 3. Taking measurements of bamboo dimensions<br><br>4. Measure the dimensions of the liana<br><br>5. Measuring the dimensions of the rattan                                                                                                                                                                                                                     | bamboo<br><br>4. Measurement of liana dimensions<br><br>Rattan dimension measurement                                                                                                                                                                            | (electronics), laptop/computer/smartphone, camera, microphone, headset, internet network, practice materials (adjustable), etc.<br><br><b>Offline</b><br>a. Method:<br>Lectures, Q&A, discussions, video shows, simulations, practice<br>b. Tools/Materials: Display materials (electronic), laptop/computer, LCD, whiteboard, markers, practical materials (Vertex and Transponder, Laser Distance Meter, Measuring stick, Caliper, Phiband, Meter), etc.                                                                                                                                                         |                                                                                              |
| 7.  | National Forest Inventory Planning          | 2  | 4   |    | 6 After completing this training course, participants will be able to:<br><br>1. Explain sampling design IHN<br>2. Explain the shape and size of the IHN Plot cluster<br>3. Make a Field Work Map.<br>4. Organizing the work team<br>5. Prepare the necessary tools and logistics for forest inventory measurements.<br>6. Operate the data recording application (collect mobile) | 1. IHN sampling design discussion, video presentation, IHN practice<br><br>3. Creating a Work Map Field.<br>4. Team organization Work<br>5. Forest Inventory measurement tools and logistics<br>6. Application introduction recording (collect laptop/computer) | <b>Online</b><br>a. Method: Teleconference lecture, question and answer , independent<br>b. Tools/Materials: LMS, presentation materials (electronic), laptop/computer/smartphone, camera, microphone, headset, internet network, practice materials (adjustable), etc.<br><br><b>Offline</b><br>a. Methods: Lectures, Q&A, discussions, video shows, simulations, practice<br>b. Tools/Materials: Presentation materials (electronic), data LCD, whiteboard, mobile) markers, practical materials (mapping software, data recording application (collect mobile), sampling design map, stationery, printer), etc. | Minister of Environment and Forestry Regulation No. 7/2021<br>Related technical instructions |
| 8.  | Implementation of National Forest Inventory | 8  | 22  | 30 | After taking this training course, participants will be able to:<br>1. Building IHN Plot Clusters<br>2. Conduct measurements of the IHN sample plot<br>3. Record data using the collect mobile application                                                                                                                                                                         | 1. Cluster Development IHN Plot<br>2. IHN example plot measurement<br>Use of Collect Mobile                                                                                                                                                                     | <b>Online</b><br>a. Methods: Teleconference lectures, Q&A, discussions, video presentations, independent practice<br>b. Tools/Materials: LMS, presentation materials (electronic), laptop/computer/smartphone, camera, microphone, headset, internet network, practice materials (adjustable), etc.                                                                                                                                                                                                                                                                                                                | Minister of Environment and Forestry Regulation No. 7/2021<br>Related technical instructions |

| No. Training Subject                                   | JP |     |   | Learning Outcome Indicators                                                                                                                                                                                     | Subject matter<br>Discussion/<br>Skills                  | a. Method<br>b. Learning Aids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Source<br>Literature                                                                         |
|--------------------------------------------------------|----|-----|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                                                        | TP | JML |   |                                                                                                                                                                                                                 |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                              |
|                                                        |    |     |   |                                                                                                                                                                                                                 |                                                          | <b>Offline</b><br>a. Methods: Lectures, Q&A, discussions, video shows, simulations, practice<br>b. Tools/Materials: Display materials (electronic), laptop/computer, LCD, whiteboard, markers, practical materials (Vertex and Transponder, Measuring stick, Caliper, Phiband, Compass, Meter, Clip plot, minimum 1 gram scale, plastic bag, label, stapler, Tablet and Collect mobile software, tree label, stationery), machete/cleaver etc.                                                                                                                                            |                                                                                              |
| 9. Reporting of National Forest Inventory Data Results | 1  | 3   | 4 | After attending the training participants can:<br>1. Export the results data 2. Compile measurement reports from Collect Mobile measurement results<br>2. Compile a report on the results of field measurements | 1. Export the results of this data, measurement<br>field | <b>Online</b><br>a. Methods: Teleconference lectures, Q&A, discussions, video presentations, independent practice<br>b. Tools/Materials: LMS, presentation materials (electronic), laptop/computer/smartphone, camera, microphone, headset, internet network, practice materials (adjustable), etc.<br><b>Offline</b><br>a. Methods: Lectures, Q&A, discussions, video shows, simulations, practice<br>b. Tools/Materials: Display materials (electronic), laptop/computer, LCD, whiteboard, markers, practical materials (Tablet and Collect mobile software, stationery, printer), etc. | Minister of Environment and Forestry Regulation No. 7/2021<br>Related technical instructions |

  
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