

## APF Net Curriculum 5

### Restoration of Degraded Forest Ecosystems and Forest Plantation Development

#### Course Schedule (PDF)

This is a self-directed online course that you can complete at your own pace. The speed at which you progress through the course will depend on how much you already know about forest growth and restoration.

Start Week	Module/Unit	Core Ideas	Learning Activities
<b>Module 1: Forest Ecology.</b> Allow 15-20 hours to complete <u>each topic</u> in Module 1 (about 45-60 hours to complete the module).			
<b>1</b>	<b>Module 1/Topic 1 Forest regeneration, tree and stand growth</b>	Terminology and methods of forest regeneration, tree growth and differentiation into crown classes.	Read background information. Watch online video lectures. Investigate resources. Complete topic 1 reflection questions.
<b>2</b>	<b>Module 1/Topic 2 Forest productivity: carbon cycle</b>	The ecosystem paradigm and the capture of light energy through photosynthesis in the carbon cycle.	Read background information. Watch online video lectures. Investigate resources. Complete topic 2 reflection questions.
<b>3</b>	<b>Module 1/Topic 3 Forest productivity: nutrient cycles</b>	Processes of nutrient cycling as an example of the application of ecosystem ecology.	Read background information. Watch online video lectures. Investigate resources. Complete topic 3 reflection questions. Complete 2 assessed quizzes at the end of the Module.

Start Week	Module/Unit	Core Ideas	Learning Activities
<b>Module 2: Degraded forest systems.</b> Allow 15-20 hours to complete <u>each topic</u> in Module 2 (about 45-60 hours to complete the module).			
<b>4</b>	<b>Module 2/Topic 1 Restoring</b>	Properties of degraded ecosystems.	Read background information. Watch online video lectures.

	<b>Degraded Forests – Definition and Context</b>	Types of restoration, restoration strategies and methods.	Investigate resources. Complete topic 1 reflection questions.
<b>5</b>	<b>Module 2/Topic 2 Forest Restoration in Practice</b>	Indicators of forest restoration success.	Read background information. Watch online video lectures. Investigate resources. Complete topic 2 reflection questions. Complete 2 assessed quizzes at the end of the Module.

<b>Start Week</b>	<b>Module/Unit</b>	<b>Core Ideas</b>	<b>Learning Activities</b>
<b>Module 3: Forest Plantation Development.</b> Allow 15-20 hours to complete <u>each topic</u> in Module 3 (about 45-60 hours to complete the module).			
<b>6</b>	<b>Module 3/Topic 1 What is a forest plantation</b>	Plantation purpose, matching species and site.	Read background information. Watch online video lectures. Investigate resources. Complete topic 1 reflection questions.
<b>7</b>	<b>Module 3/Topic 2 Forest plantation establishment</b>	Site preparation, planting and establishment.	Read background information. Watch online video lectures. Investigate resources. Complete topic 2 reflection questions.
<b>8</b>	<b>Module 3/Topic 2 Maximizing Plantation Value</b>	Optimizing plantation productivity and nutrition. Thinning, pruning and regulation of yield.	Read background information. Watch online video lectures. Investigate resources. Complete topic 3 reflection questions. Complete 2 assessed quizzes at the end of the Module.