

# Managing for Sustainable Forestry in the Tropics

Forest management is becoming increasingly complex as forest industries move towards sustainable management practices and the need to meet multiple objectives from their forestry activities. This is especially so in the Tropics.

Forest and logging managers are now being called on to deal not only with profitable forest operations, but as well, to deal with difficult environmental and social issues.

As a result, developing the appropriate skills to successfully manage logging operations that meet the goals of sustainable tropical forestry, which includes social and environment elements, has become an important requirement for managers in the forest sector.

To meet the skill needs of logging managers, the Sarawak Timber Association and Lincoln University in New Zealand, with cooperation from the Sarawak Forestry Corporation and the Sarawak Forest Department, have developed a Post Graduate Diploma for managers in the logging industry.

## What is the Post Graduate Diploma ?

The Post Graduate Diploma consists of six subjects offered by Lincoln University. The subjects will be taught using a mixture of Lincoln University lecturers and local Sarawak forestry specialists. Other specialists will be called in as and when needed. The Post Graduate Diploma will take two years to complete, with three subjects being offered each year.

The teaching format of the Post Graduate Diploma is designed around the needs of working managers. All subjects will be taught in Sarawak and offered as intensive block courses. Students will be given course materials that will be used during the intensive block courses and for self-study at other times. Students will have access to online resources from the Library at Lincoln University, as well as access to the STA Resource Centre.

Students who successfully complete all subjects will be awarded a Lincoln University Post Graduate Diploma. For those who are interested in further study, the Post Graduate Diploma provides entry to a Masters degree.



## The Programme

The six subjects that make up the Post Graduate Diploma cover a wide range of topics.

<p><b>Forestry in Sarawak</b> World forestry, wood utilisation and organisation of the forest industry. Current issues in forestry, with particular reference to tropical forestry and Sarawak. Forest types, ecology and environment. Forest uses in Sarawak. History and organisation of forestry management in Sarawak. Legal and institutional structures covering forestry and timber industry in Sarawak.</p>	<p><b>Forest Sustainability – Theory and Practice</b> Definition and historical development of the concept of sustainability. Sustainable production of timber. Sustainable forest management. Sustainability of ecosystems. Measurements and monitoring of sustainable forest management.</p>
<p><b>Forest Economics and Policy</b> Introduction to economics concepts and techniques. Application of economic principles and development of analytical techniques for dealing with current forestry issues. Topics include optimal rotation, multiple uses, product supply and demand, trade and forest policy issues.</p>	<p><b>Forest Utilisation</b> Introduction to wood science, and wood anatomy. Wood using industries and process technologies, timber seasoning, protection and preservation of timber. Overview of environmental, social and economic perspectives, including non-wood forest products, management of multiple uses of forests, traditional and cultural uses, and native customary rights.</p>
<p><b>Forest Harvesting and Planning</b> Harvesting technologies, practices, and reduced impact logging. Road and landing construction. Log transportation, tracking, and distribution and chain of custody. Mensuration and inventory techniques for forest planning, road layout, skid trail planning, and coupe and block design. Computer modelling in forest planning. Environmental and social considerations.</p>	<p><b>Silviculture</b> Principles for natural and plantation forests in the tropics. Relationship of silviculture to economics, harvesting, wood quality and forest protection. Identification and silvics of major tree and timber species. Pest, disease and fire management.</p>

## Entry Requirements

This is a post-graduate qualification from Lincoln University. Normal entry is based on a good first degree from a recognised university. Experience and/or other qualifications may also be considered for entry.

Lectures and assessment will be in English. A credit in English Language at SPM (Sijil Pelajaran Malaysia or Malaysian Certificate of Education) level or equivalent is expected.

## For further information please contact:

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Te Whare Wānaka o Aoraki