

TRANSFER OF TECHNOLOGY - FORESTRY TRAINING CENTRE

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These present training courses in logging with the exception of the N.Z.C.F. conducted by the Forest Service at the Forestry Training Centre came about as a recommendation from Sale Planning and Management Workshop held in December of 1980. The N.Z. Forest Service is currently examining a strategy for the career development in the area of harvesting and marketing of which logging is just one facet.

The following future training requirements were identified during the course of this workshop and the need to cater for four categories of people were recognised.

Planning  
Management  
Supervision  
Loggers

(1) Planners

- (a) Operational : Must have ability to present options, experience needed in logging systems and their application. High quality short courses are available in the United States (Oregon State University).
- (b) Strategic Cutting : Strategies and resources upgrade and improve training of Forest Rangers and Technicians in resource mensuration.

(2) Management and Supervision

Extend current stock of abilities. Run formal training courses (get on the job training in their own forests), and develop commensurate responsibilities.

Three requirements for formal training :-

Basic Supervision  
Managers  
Senior Managers

Specialist officer concept was not favoured but it was recognised that logging planning specialists would be required.

Logging is recognised as another forest operation and that logging management skills should be added to the forest management skills of the present staff.

(3) Loggers

The present logging certification scheme under the control of the Logging and Forest Industry Training Board is endorsed and the Forest Service should give all necessary co-operation for the national expansion of the scheme.

There are four training Courses with a logging theme held at the Forestry Training Centre each year. These are:-

- (1) Logging Planning and Management
- (2) Logging Management for Supervisors
- (3) N.Z. Certificate in Forestry Stage IV Logging and Forest Engineering
- (4) Cable Logging

The object of the Logging Planning and Management course is to add these skills to our present forest managers who will be involved in logging operations and not to concentrate solely on the development of logging skills. This course is of 8 days duration. Subjects covered :-

|   |          |
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| Principles of planning for harvesting   | 2 hours  |
| Group Work on Planning  | 1½ hours |
| Pre-harvest Inventory - MARVL   | 2 hours  |
| Logging Systems   | 2 hours  |
| Demonstration of Cable Logging Systems  |          |
| Tactical Planning and Various approaches and how they affect production   | 4 hours  |
| Logging Capability and demonstration of two main production variables - piece size and haul distance considering tractors and haulers | 5 hours  |
| Field exercise and groups designing plans for specific systems  | 8 hours  |
| Roading operation and costs   | 2 hours  |
| Bonus Incentives  | 2 hours  |
| Contract price setting, price reviews and dispute procedures  | 4 hours  |
| Field Trip N.Z. Forest Products - examine complete range of logging systems used by N.Z. Forest Products in clearfelling and logging  | 8 hours  |
| Marketing - A Brief Review  | 2 hours  |

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|---|---------|
| Transportation of Forest Produce - A look at the five basic transport systems             | 2 hours |
| Logging Engineering Station Visit - Demonstration of F.R.I. Cable Hauler Planning Package |         |
| Case Studies - course evaluates a hypothetical sale proposal                              | 3 hours |
| Management Exercise - Group work on some management case studies                          | 2 hours |
| Control of Operations   | 2 hours |

The logging management for supervisors course is also aimed at adding these skills to people who are required to supervise logging operations. In the past this course has been of 4 days duration but this year has been extended to 8 days as the people who were attending this course had trouble grasping the material in this short time of four days.

The Logging and Engineering Course of the New Zealand Certificate in Forestry is a Stage IV subject of a five stage Certificate. This course is one of 12 subjects taught on behalf of the Authority for Advanced Vocational Awards which is an arm of the Education Department. The ratio of Logging to Engineering is in the order of 60% logging to 40% engineering. The aim of this course is to provide students with an understanding of the roles of logging and engineering in forest management. The subject is to cover basic principles, selection of methods, standards, costs, planning and environmental considerations. Prior to the course students must have undertaken a period working in a logging operation. They are required to provide a written report at the beginning of the course describing the type of operation, the type of work carried out by the student and an analysis of the operation giving production rates, equipment used, manpower employed and details of topography and tree species. (Attach notes).

The Cable Logging Course is of one weeks duration and is run in conjunction with the Logging Industry Research Association and course members are drawn from Industry and the N.Z. Forest Service on a 3:1 ratio.

