



**Forest Practice Officer  
Training Resource Manual  
(August 2012)**

***Produced by***  
**Forest Practices Authority**

## **Acknowledgements**

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- Forest Practices Authority
- Forest Enterprises Australia
- Forestry Tasmania
- Gunns Ltd
- Norske Skog
- TAFE Tasmania

**See end of document for document control information.**

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**Note: Session times listed under each module are indicative and are subject to change.**

# Forest Practices Authority

## Welcome to the Forest Practice Officer Training Course

This training manual was developed to provide participants with the skills and knowledge required to become a Forest Practice Officer.

The course complies with national competency standards that were developed by industry after extensive consultation with private and public sector organisations and individuals throughout Australia.

Satisfactory completion of this course fulfils one of the requirements for appointment as a Forest Practices Officer by the Forest Practices Authority.

This training manual has been developed with the input of officers of the Forest Practices Authority and other industry specialists.

Trainers and assessors may supplement the material in this manual with additional local examples and further information as they may deem appropriate.

We trust that you enjoy participating in this program.

Graham Wilkinson  
Chief Forest Practice Officer  
Forest Practices Authority  
Hobart

## **Learning and assessment strategy/course information**

### **69812 Course in Forest Practices (Forest Practice Officer)**

#### **Description**

This course covers the knowledge and skills required to become a Forest Practices Officer. This role, which is in conjunction with their other functions, is to assist the Forest Practices Authority in the implementation of the *Forest Practices Act 1985* and the *Forest Practices Code*.

#### **Who should enrol in this course?**

- people currently working in the forest industry
- people who need to gain skills to satisfy the requirements of the Forest Practices Authority to become a Forest Practices Officer.

#### **Do I need any skills?**

Participants are expected to have current skills and knowledge of Tasmanian Forestry operations and have the equivalence of a Certificate IV in Forest Operations or higher. Participants would need a letter of support from their supervisor or employer. It would be advisable for participants to discuss their current level of knowledge and skills with the Forest Practices Authority to see if they need to complete any initial training prior to the commencement of this course.

#### **How long will it take?**

Depending on your learning and assessment needs, it is expected you could complete the course part time within six months.

#### **Where can I learn?**

Learning will take place both on the job and off the job

#### **How will I learn?**

The knowledge and skills that you will obtain will be gained by attendance at structured workshops delivered by TAFE, Forest Practice Authority and Forestry Industry and other specialist presenters and by on the job practice and experiences. Learning environments include:

- on-the-job – training in your workplace
- off-the-job – Learning will be at workshops at various venues
- demonstrations – to show you how to do things
- the completion of various assignments
- one-on-one mentoring.

## **How will I be assessed?**

Throughout all assessments, occupational health & safety procedures must be followed. Assessment methods will be negotiated using a variety and or combination of the following methods.

- recognition – you may be able to show that you already have the ability, and don't need to be assessed again. Ask for more information
- short written assessment – question and answer style test
- projects – group or individual, may be practical or research based
- assignments – research topic and provide a written response
- reports – completion of Forest Practice Plans
- practical – you will be observed doing tasks.

## **When I complete this training, what's next?**

On successful completion participants may apply to Forest Practices Authority to be appointed as a Forest Practices Officer.

## **Further study or career options may include:**

Students who complete this course, may enrol in a Certificate IV or a Diploma in forestry or management related areas.

## **Course requirements**

The following units are those that will be achieved on successful completion of the course:

- FPIFGM5209A – Manage coupe planning
- FPIFGM4207A – Conduct a forest site assessment
- FPICOR2202A – Communicate and interact effectively in the workplace
- BSBWRT401A – Write complex documents
- BSBLEG412A – Interpret and apply legislation.

## **Consultation**

A range of representatives from the Tasmanian forest industries, were consulted when the learning and assessment strategies for this qualification were developed.

## **Assessment validation process**

A range of assessors from the Institute of TAFE Tasmania's forestry teams and/or representatives from the forest industries, meet regularly to review, compare and evaluate our assessment process, tools and evidence. We document any action taken to improve the quality and consistency of assessment.

## Role description of a Forest Practice Officer

The role of a Forest Practice Officer (FPO) is to assist the Forest Practices Authority in the implementation of the *Forest Practices Act 1985*.

More specifically, various functions and responsibilities that an FPO carries out are:

### 1. Prepare or vary forest practices plans

- 1.1. consult with local government, neighbours and other interest groups regarding planned forest practices
- 1.2. conduct assessments
- 1.3. use planning tools and follow procedures to prepare a forest practices plan in accordance with the *Forest Practices Code*
- 1.4. consult with specialists to develop prescriptions for natural and cultural values
- 1.5. Planning FPOs only – certify, amend, vary or refuse forest practices plans.

### 2. Inspect forest operations covered by forest practices plans to ensure compliance

- 2.1. provide forest practices advice/coaching and briefings to contractors and staff within the FPO's own organisation
- 2.2. inspect and monitor operations to ensure compliance with a forest practices plan
- 2.3. monitor and assess operations and complete a certificate of compliance at the completion of each discrete operational phase under a forest practices plan, and a certificate of compliance at the completion of operations under a forest practices plan
- 2.4. issue notices under section 41 of the *Forest Practices Act 1985* and provide reports to the FPA on breaches of the *Forest Practices Code*, *Forest Practices Act 1985* or forest practices plans.

### 3. Maintain knowledge and skills in the implementation of FPA policies and instructions

4. maintain up to date skills and knowledge by attending required training courses and briefings by the FPA
5. be familiar with and implement current instructions, procedures and planning tools.
6. carry out any other work as may be directed by the Chief Forest Practices Officer under the *Forest Practices Act 1985*

## **Module 1 *Forest Practices Act 1985***

### **Overview**

This module provides participants with an understanding of the key components of the *Forest Practices Act 1985* of importance to a Forest Practices Officer.

Topics to be covered:

- *Forest Practices Act 1985* and *Forest Practices Regulations 2007* including:
- Forest Practices Officers
- forest practices plans
- enforcement
- three year plans
- private timber reserves
- other key provisions of importance to Forest Practices Officers
- the history and philosophy of the forest practice system.

### **Demonstrated prerequisite knowledge and skills**

Minimum of three years practical field forestry experience, with a minimum of one year working with the Tasmanian forest practices system.

### **Learning outcomes**

At the completion of this module participants should be able to:

- be aware of all the key provisions of the *Forest Practices Act 1985*
- understand activities requiring a forest practices plan and the various requirements applying to forest practices plans
- identify exemptions from the requirement for a forest practices plan under the *Forest Practices Regulations*
- understand the purpose of three year plans
- identify the powers and responsibilities of Forest Practices Officers
- understand the enforcement provisions under the *Forest Practices Act 1985*
- understand the purpose of private timber reserves.

### **Delivery**

This module will be delivered over two sessions.

Session 1	<i>Forest Practices Act 1985</i>	120 mins
Session 2	Private timber reserves	30 mins

## **Assessment**

Participants will be required to complete a *Forest Practices Act 1985* assessment, which is to be submitted on a nominated date.

## **Course material/handouts**

Participants will be given course notes at the commencement or during the presentation of this module.

**Participants are to bring a copy of the *Forest Practices Act 1985*, *Forest Practices Regulations 2007*, and *Forest Practices Code 2000*.**

## **Contact details**

Jo Field  
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## **References/information**

- *Forest Practices Act 1985*
- *Forest Practices Regulations 2007*
- a guide to planning approval for forestry in Tasmania
- forest practices plan cover page
- acknowledgement Forms 1-4
- variation forms (section 22 and section 23)
- amendment form
- refusal form
- section 41 notices.

## Module 2 FPA policies and FPO responsibilities

### Overview

This module provides trainees with an understanding of Forest Practices Authority policies and procedures, instructions to Forest Practices Officers, and the responsibilities that Forest Practices Officers have in implementing forest practices plans.

Topics to be covered:

- Forest Practices Authority policies and procedures
- responsibilities Forest Practices Officers have in implementing forest practices plans.

### Demonstrated prerequisite knowledge and skills

Minimum of three years practical field forestry experience, with a minimum of one year working with the Tasmanian forest practices system.

### Learning outcomes

At the completion of this module participants should be able to:

- demonstrate knowledge of Forest Practices Authority policies
- know how to access information in the *FPO Manual*
- comply with instructions issued to Forest Practices Officers by the Forest Practices Authority relating to notices of intent, duty of care, risk assessment, variations, and certificates of compliance
- understand the role of Forest Practices Officers in ensuring compliance with forest practices plans
- understand the approaches that minimise the risk of breaches occurring, such as identifying and marking boundaries correctly, and briefing contractors on forest practices plan requirements
- understand how 'will' and 'should' statements in the *Forest Practices Code* are to be implemented
- recognise the role of Forest Practices Officers in coaching contractors and maintaining standards
- know when and how to prepare a variation to a forest practices plan
- make a decision involving exercise of knowledge and judgement
- recognise breaches of forest practices plans and the *Forest Practices Act 1985*, and know how to proceed when breaches occur.

## Delivery

This module will be delivered over two sessions:

Session 1	FPA Policies and procedures	60 mins
Session 2	FPP Implementation	60 mins
Session 3	Risk Assessment exercise	60 mins

## Assessment

- Assessment for this module will be incorporated into Module 1 assessment.
- There will be an in-class risk assessment exercise.

## Course material/handouts

Participants will be given course notes at the commencement or during the presentation of this module.

## Contact details

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[Guest FPO – TBA]

## References/information

### FPA policies and procedures

- notice of intent and duty of care
- other policies referred to in the presentation ‘FPA Policies and Procedures’ are embedded within the *FPO Manual*. Details of how to access these documents will be provided by the presenter:
  - risk assessment
  - variations to FPPs – the various requirements for variations are located under the *FPO Manual* chapter ‘Forest practices plans – certification, amendment, variation, refusal and revocation’, particularly the section ‘variations to forest practices plans’
  - Certificates of Compliance – the requirements for Certificates of Compliance are located under the *FPO Manual* chapter ‘Forest practices plans – responsibilities and Implementation’
  - Guide for Suspension, Revocation or Withdrawal of FPO Warrants – this policy is located under the *FPO Manual* chapter ‘Forest Practices Officers’

**FPP implementation**

The approaches endorsed by the FPA can be found in the *FPO Manual* chapters. Details of how to access these will be provided by the presenter. These include:

- approaches in 'Forest practices plans – responsibilities and implementation':
  - boundary marking – see under heading 'Boundaries'
  - contractor briefings – see under headings 'Contractor's responsibilities' and 'Supervision of contractors (pages 10–11)'
  - relationship with contractor – see under heading 'Supervision of contractors'
  - breaches – see under heading 'Reporting of breaches'.
- approaches in 'Forest practices plans – certification, amendment, variation, refusal and revocation'
- *Forest Practices Code* – see *Forest Practices Code* requirements (page 6ff).

## Module 3 Road location and construction

### Overview

This module provides participants with the skills and knowledge to be able to investigate gather information and understand the key issues for ensuring that forest roads are planned and constructed in accordance with the requirements of the *Forest Practices Code*. Code provisions relating to road design and construction, culverts and structures requirements processes and prescriptions for steep country roads, quarry administration and road maintenance requirements will also be covered in this module.

Topics to be covered:

- planning and locating roads
- road design requirements and issues
- road construction requirements and issues
- culverts & structures
- special road prescriptions for:
  - steep country roading
  - very high erodibility class soils
  - sensitive water catchments
  - upgrades of existing roads and access tracks
- quarry requirements
- road maintenance requirements.

### Demonstrated prerequisite knowledge and skills

- Minimum of three years practical field forestry experience, with a minimum of one year working with the Tasmanian forest practices system.
- Road construction unit from the Diploma of Forestry or equivalent, or demonstrated practical experience with roading.

### Learning outcomes

At the completion of this module participants should be able to:

- identify and describe the requirements of the *Forest Practices Code* for locating a forest road
- list the criteria for building different classes of forest roads
- identify environmental and conservation issues likely to impact on the construction of a forest road
- describe the principal elements of road design
- apply the appropriate design to a given situation

- specify the correct drainage for a given situation
- identify the appropriate types of crossings for different watercourses
- specify the maintenance requirements for different road classes.

## Delivery

This module will be delivered over eight sessions:

Session 1	Planning and locating roads	45 mins
Session 2	Exercise – road terminology	20 mins
Session 3	Road design & construction requirements and issues	45 mins
Session 4	Culverts & structures	30 mins
Session 5	Special road prescriptions, quarries & road maintenance	45 mins
Session 6	Exercise – knowledge review question & answer	20 mins
Session 7	Quarries & road maintenance	20 mins
Session 8	Assessment procedure	15 mins
<del>Session 9</del>	<del>Field inspections &amp; exercises</del>	<del>180 mins</del>

2012-13 FPO  
course only –  
no field  
component  
with this  
module.

## Assessment

Participants will be required to complete and submit a satisfactory forest practice plan involving significant road construction for assessment. Notification and prescriptions for special values associated with a theoretical FPP will be provided if an actual project is not available.

## Course material

Participants will be given course notes at the commencement or during the presentation of this module which will include:

- *Forestry Tasmania Road Construction Module* – section 6 Forest Practices
- road terminology.

## Contact details

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## References/information

- *Forestry Tasmania Road Construction Module Notes* – Diploma of Forestry, Operations and Practices.

## Module 4 Timber harvesting

### Overview

This module provides participants with an understanding of the key requirements of the *Forest Practices Code* with regard to timber harvesting.

Topics to be covered:

- conventional harvesting
- native forest
- plantation thinning and clearfall operations
- cable harvesting.

### Demonstrated prerequisite knowledge and skills

- Minimum of three years practical field forestry experience, with a minimum of 1 year working with the Tasmanian forest practices system.
- Understanding of harvesting systems and practical experience with their implementation.

### Learning outcomes

At the completion of this module participants should be able to:

- recognise machinery categories used in the *Forest Practices Code*, and appropriate conditions for each machinery category
- understand the wet weather provisions in the *Forest Practices Code* and how to apply them
- understand the snig track location and restoration requirements in the *Forest Practices Code* and how to apply them
- understand the landing location and restoration requirements in the *Forest Practices Code* and how to apply them
- plan and implement suitable prescriptions for plantation thinning and clearfall operations
- plan and implement suitable prescriptions for harvesting plantation timber that has been established in streamside reserves, including MEZs
- understand the *Forest Practices Code* provisions for protection of stream values and how to apply them
- determine the provisions of the *Forest Practices Code* for management of fuels and rubbish
- understand some of the practical aspects constraining cable harvesting operations
- list the different cable harvesting options which are available and identify the specific planning requirements for cable harvesting

- identify the economic, environmental and social constraints applying to cable harvesting
- determine the provisions in the *Forest Practices Code* applying to cable harvesting to protect environmental values.

### **Delivery**

This module will be delivered over three sessions:

Session 1	Conventional harvesting – native forest and plantation	90 mins
Session 2	Cable harvesting	45 mins
Session 3	Harvesting field assessment	150 mins

### **Assessments**

- Group harvesting audit exercise: a practical exercise will be undertaken in the field. Participants will have to undertake an assessment of a recently harvested coupe and complete an assessment form on the coupe.
- Written assessment: a short questionnaire will be handed out for participants to complete and return by a nominated date.

### **Course materials/handouts**

- blank coupe harvesting assessment forms (obtain from company that is providing the coupe to be assessed)
- copies of forest practices plan for coupe to be assessed
- *Forest Practices Code 2000*.

### **Contact details**

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### **References/information**

- *Forest Practices Code 2000*
- *Tasmanian Cable Harvesting Code (2006)*

## **Module 5 Fire management in forest practices**

### **Overview**

This module provides participants with the skills and knowledge to develop and assess a fire management plan and to conduct a risk assessment of a planned burn.

Topics to be covered:

- fire in the landscape
- fire management in forest practice plans
- aspects of operational planning
- Forest Industry Standard for Prescribed Silvicultural Burning Practice 2009.

### **Demonstrated prerequisite knowledge and skills**

- minimum of three years practical field forestry experience, with a minimum of one year working with the Tasmanian forest practices system
- knowledge of the elements of fire behaviour and fire ecology
- completion to a satisfactory standard of a pre-course assignment.

### **Learning outcomes**

At the completion of this module participants should be able to:

- identify the criteria which determine the need for a fire management plan to be in place for an area of commercial forest
- list the key issues to be addressed in the development of a fire management plan
- identify a stage in the sequence of operational planning for forest harvesting which will deliver the best fire management outcomes
- determine whether or not a particular prescribed silvicultural burning regime is appropriate for a forested area in a forest practices plan
- identify five parts of the Forest Industry Standard for Prescribed Silvicultural Burning Practice 2009.
- reference the Forest Industry Standard for Prescribed Silvicultural Burning Practice 2009 from the Forest Practices Authority's web site.
- provide a summary of each part of the Forest Industry Standard for Prescribed Silvicultural Burning practice 2009.

## Delivery

This module will be delivered over three sessions:

Session 1	Review of Pre-course Assignment	15 Mins
Session 2	Fire Management Planning	60 Mins
Session 3	Operational Planning for Fire Management	60 Mins

## Assessment

Participants will be required to complete a multiple choice test in their own time and submit it by a nominated date.

## Course material/handouts

Participants will be given course notes as part of the pre-course assignment hand out with the nomination form.

## Contact details

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## References/information

- Forest Industry Standard for Prescribed Silvicultural Burning Practice 2009.
- Other reference materials such as web sites are detailed in the course notes.
- Participants should ensure that they have a current copy of the *Forest Practices Code* with them during the session.

## Module 6 Cultural heritage

### Overview

This module introduces the concepts of cultural heritage in Tasmania's wood production forests. The emphasis is on identification of cultural heritage sites both Aboriginal and historic and the management of these sites under the *Forest Practices Code*. The Aboriginal and European history of Tasmania is outlined to place the sites into context.

Cultural resource management deals with the practice of Aboriginal and historic site conservation and management based on the significance and value of the sites. The subject aims to teach participants the practical and theoretical skills of site management and assessment. The subject also provides the students with hands on experience in the identification, classification and recording of Aboriginal and historic sites and places.

Topics to be covered:

- identification of cultural heritage sites
- management of known and new cultural heritage sites under the *Forest Practices Code*
- relevant legislation
- Forest Practices Officer responsibilities in the preparation of a forest practices plan
- correct procedures for managing cultural heritage sites.

### Prerequisite knowledge and skills

Minimum of three years practical field forestry experience, with a minimum of one year working with the Tasmanian forest practices system.

### Learning outcomes

At the completion of this module participants should be able to:

- define cultural heritage values and recognise historic and Aboriginal sites
- manage the cultural heritage in broad planning systems in place for wood production forests
- understand the legislation that protects heritage in Tasmania
- understand how significance is determined and the need for community consultation.

### Delivery

This module will be delivered over four sessions:

Session 1	Identification of Cultural Heritage	60 Mins
Session 2	Importance of Cultural Heritage	60 Mins
Session 3	Archaeology and the <i>Forest Practices Code</i>	60 Mins
Session 4	Field Inspection(s)	240 Mins

## **Assessments**

Participants will be given a questionnaire to complete at their work site and returned by a nominated date.

## **Course material/handouts**

Participants will be given course notes for this module at the commencement or during the presentation.

## **Contact details**

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Forest Practices Authority  
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FPO (Planning)  
Gunns Limited  
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## **References/Information**

- *Historic Cultural Heritage Act 1995* (download [www.thelaw.tas.gov.au](http://www.thelaw.tas.gov.au))
- *Aboriginal Relics Act 1975* (download [www.thelaw.tas.gov.au](http://www.thelaw.tas.gov.au))
- FPA Resource guide for managing cultural heritage in wood production forests (download [http://www.fpa.tas.gov.au/fpa\\_services/planning\\_assistance/heritage\\_and\\_landscape](http://www.fpa.tas.gov.au/fpa_services/planning_assistance/heritage_and_landscape))

## Module 7 Geomorphology

### Overview

This module provides participants with an understanding of the major geomorphic process operative within Tasmania's forest estate and their likely impacts upon forest land management, and the terms geoconservation, geodiversity and geoheritage. Also the ability to utilise and interpret geoscience databases, namely the Tasmanian Geoconservation Database and the Karst Atlas.

Topics to be covered:

- geomorphic processes operative, and their associated landforms, within the Tasmanian forest estate. These include:
  - fluvial
  - aeolian — coastal and arid
  - glacial
  - periglacial
  - karst
  - volcanic
  - hill-slope
  - coastal
- land management prescriptions to be undertaken in the aforementioned geomorphic terrains
- karst landforms and categories within the Tasmanian landscape
- utilisation and interpretation of geoscience databases such as the:
  - Tasmanian Geoconservation Database, and
  - Karst Atlas
- interpretation of details from geological and hydro-geological maps
- concepts of geodiversity, geoconservation and geoheritage.

### Demonstrated prerequisite knowledge and skills

- Minimum of three years practical field forestry experience, with a minimum of one year working with the Tasmanian forest practices system.
- Ability to identify major Tasmanian rock types.

## Learning outcomes

At the completion of this module participants should be able to:

- recognize some of the basic geomorphic elements present within the Tasmanian Forestry Estate and to apply management prescriptions
- recognize different karst types, their unique qualities and how they relate to forestry practices and to develop a forest practices plan to take into account karst
- interpret basic geological and hydrological details from geological and hydro-geological maps
- describe the basic concepts of geodiversity, geoconservation and geoheritage, illustrated by Tasmanian examples
- assess the sensitivity and vulnerability of geological and geomorphic features within a coupe during the preparation of a forest practices plan
- access and interpret both the Tasmanian Geoconservation Database (TGD) and the Karst Atlas
- gain further earth science information and advice.

## Delivery

This module will be delivered over four sessions:

Session 1	Introduction to geomorphic processes operative within the Tasmanian forest estate	60 Mins
Session 2	Geoscience databases for foresters	60 Mins
Session 3	Geoconservation and geoheritage	30 Mins
<del>Session 4</del>	<del>Field inspections (in conjunction with Module 11)</del>	<del>180 Mins</del>

2012-13 FPO course only – no field component with this module.

## Assessment

Participants will be required to complete a questionnaire in their own time and submit it by a nominated date.

## Course material/handouts

Participants will be given course notes at the commencement or during the presentation of this module.

## Contact details

Peter McIntosh  
Senior Scientist, Earth Sciences  
Forest Practices Authority  
6233 2717  
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## References/information

- Eberhard, R and Hammond, A 2007, 'Rocks and hard places: the Tasmanian Geoconservation Database', *Forest Practices News* vol 8 no 2 Aug 2007.
- Kiernan, K 1990 *Geomorphology Manual*, Forestry Commission, Tasmania.
- Kiernan, K 1995, *An Atlas of Tasmanian Karst*, Tasmanian Forest Research.
- Kiernan, K 2002, *Forest Sinkhole Manual*, Forest Practices Board.
- Sharples, C 2000, *Users Guide to the Tasmanian geoconservation database*, unpublished document.
- Sharples, C 2003, *Data Dictionary and metadata for the Tasmanian Karst Atlas V.3.0 (2003) Digital Dataset*, unpublished document for Forestry Tasmania and Department of Primary Industries, Water and Environment.

## Web Sites

- Parks and Wildlife Service Tasmania, *Geodiversity: Formation of Tasmania: times and processes*, Department of Tourism, Parks, Heritage and the Arts Factsheet. <[www.parks.tas.gov.au/file.aspx?id=6531](http://www.parks.tas.gov.au/file.aspx?id=6531)>
- Pemberton, M 1997, *Conserving geodiversity, the importance of valuing our geological heritage*, Department of Tourism, Parks, Heritage and the Arts. <[www.dpiw.tas.gov.au/inter.nsf/Attachments/SJON57W5Z5/\\$FILE/geoconabstract.pdf](http://www.dpiw.tas.gov.au/inter.nsf/Attachments/SJON57W5Z5/$FILE/geoconabstract.pdf)>

## The following resources are listed if participants are interested in further information

- Ford, D, and Williams, P 2007, *Karst Hydrogeology and Geomorphology*, John Wiley and Sons, Chichester. 562p. (Standard text book on karst)
- Gray, M, 2004, *Geodiversity: valuing and conserving abiotic nature*, John Wiley and Sons, Chichester. 434p. (Standard text book on geodiversity)
- Jerie, K, Houshold, I, and Peters, D 2001, 'Stream diversity and conservation in Tasmania: yet another new approach', in (Proceedings of) *3rd Australian Stream Management Conference, CRC for Catchment Hydrology*, Melbourne, p.329-335.
- Jerie, K, Houshold, I, and Peters, D 2003, *Tasmania's river geomorphology: stream character and regional analysis*, Department of Primary Industries, Water and Environment and Natural Heritage Trust, Hobart, 2 Volumes.
- Kiernan, K 1998, *Impacts of forestry operations on natural systems in karst areas*, unpublished essay.
- Leaman, D 2001, *Step into History in Tasmanian Reserves*, Leaman Geophysics, Hobart. 416p.
- McTainsh, GH and Boughton, WC 1993, 'Land degradation in Australia – an introduction, in McTainsh, GH and Boughton, WC (editors), *Land Degradation Processes in Australia*, Longinan, Melbourne, pp. 3–16.
- Scanlon, AP, Fish, GJ, and Yaxley, M 1990 (editors): *Behind the Scenery, Tasmania's Landforms and geology*, Department of Education, Tasmania. 163p.

## Web Sites

- Tasmanian Parks and Wildlife Service: <http://www.parks.tas.gov.au/factsheets/index.html>
  - Parks and Wildlife Service Tasmania. Geodiversity: Gondwana the great supercontinent. Department of Tourism, Parks, Heritage and the Arts Factsheet.
  - Parks and Wildlife Service Tasmania. Geodiversity: Cave Reserves a remarkable world of fascinating caverns. Department of Tourism, Parks, Heritage and the Arts Factsheet.
  - Parks and Wildlife Service Tasmania. The Lake Highway: a geological journey back in time. Department of Tourism, Parks, Heritage and the Arts Factsheet.
  - Parks and Wildlife Service Tasmania. Mole Creek Karst: Mole Creek National Park. Department of Tourism, Parks, Heritage and the Arts Factsheet.

## Other Information

- Tasmanian Geological Time scale
- Rock identification charts.

## **Module 8 Visual landscape management**

### **Overview**

This module provides participants with an understanding of visual landscape management of forestry in Tasmania and the ability to define its purpose and elements. The ability to determine the visual effects of proposed forestry operations, in respect to the overlying aspects of viewing exposure to the public, and potential for changes to impact on existing landscape character.

Topics to be covered:

- landscape awareness
- visual management system (establishing significance and generic visual objectives)
- plantation visual objectives
- visual absorption capability (landscape compatibility with change)
- landscape analysis procedure (site level assessment of effects)
- design principles for integrating operations into the landscape
- native forest and plantations
- current developments in visual management.

### **Demonstrated prerequisite knowledge and skills**

Minimum of three years practical field forestry experience, with a minimum of one year working with the Tasmanian forest practices system.

### **Learning Outcomes**

At the completion of this module participants should be able to:

- appreciate the social/aesthetic values of forests and the purpose of visual landscape management in Tasmania
- understand premises guiding forest visual landscape management
- understand the key visual management components such as landscape character; and visual characteristics of various forestry operations and their impact potential
- understand the practical aspects for improving visual presentation of various forestry operations at varying viewing distances
- determine viewing significance for the landscape in the form of the visual management objectives for different viewing situations
- understand the process for visual analysis of operational proposals and determine key visual elements and issues relating to their appearance in the landscape
- understand visible-area analysis and 3D predictions of operational practices and their use in identification of options for limiting visual effects and integrating operations within the scenery

- document the visual analysis in the evaluation sheet including the needs for supporting information such as photographs, maps and 3D simulations etc.
- identify measures and practical options for mitigating visual impact of operations where available
- understand visual monitoring and its role in ensuring that visual objectives are not exceeded.

## Delivery

This module will be delivered over four sessions:

Session 1	Landscape Awareness, Visual Management system	60 Mins
Session 2	Visual Absorption Capability, Landscape analysis Group project exercise including a field trip	60 Mins
Session 3	Plantation Visual Objectives, Design Principles for Native Forestry and for Plantation Forestry	90 Mins
Session 4	FFP preparation, Developments in VLM	45 Mins

2012-13 FPO course only – no field component with this module.

## Assessment

Participants will be required to undertake an in-class exercise and hand in on the day. Prior preparation will be required before attending this module.

## Course material/handouts

Participants will be given course notes at the commencement or during the presentation of this module.

## Contact details

Scott Livingston  
FPO (Planning)  
0438 951 021  
scott@akconsultants.com

## References/information

FPA Web Site

- Forest Practices Authority of Tasmania, 2006 A Manual for Forest Landscape Management (Forest Landscape Manual), Hobart. 24-10-06
- Skyline Management for Dry and High-altitude Forests
- Visual Analysis Procedure

The following resources are listed if participants are interested in further information:

- Forestry Commission of Tasmania 1990, A Manual for Forest Landscape Management (*Forest Landscape Manual*, Printing Office, Hobart. ISBN 0-7246-3552-1

- Forestry Commission UK 1992, *Lowland Landscape Design Guidelines*, The Forestry Authority, FC Edinburgh. ISBN 0 11 7103039
- USDA Forests Service, *1973 National Forest Landscape Management Vol. 1*, U.S. Government Printing Office Washington.
- USDA Forests Service 1974, 'The Visual Management System' Chapter 1 in *1974 National Forest Landscape Management Vol.2*, U.S. Government Printing Office Washington.
- Leonard, M, Hammond, R 1984, *Landscape Character Types of Victoria*, Forests Commission of Victoria, Melbourne ISBN 7241 45727.
- New Zealand Forest Service 1982, *Creative Forestry, a guide for forest managers*, Landscape Section, Planning Division, New Zealand Forest Service, Wellington NZ. ISBN 0 477 06902 9
- USDA Forests Service 1980, 'Timber', chapter 5 in *National Forest Landscape Management Vol.2*, U.S. Government Printing Office Washington.
- Nassauer, Joan Iverson 1986, *Caring for the Countryside – A Guide to Seeing and Maintaining Rural Landscape Quality*, Station Bulletin AD-SB-3017 Agricultural Experiment Station, USDA Soil Conservation Service, and University of Minnesota.
- Forestry Commission UK 1978, *The Landscape of Forest and Woods*, Booklet No44. FC Edinburgh. ISBN 0 117101869
- Forestry Commission UK 1989, *Forest Landscape Design Guidelines*, FC Edinburgh. ISBN 0-85538-237-9
- Bell, Simon 1993, *Elements of Visual Design in the Landscape*, E & F N Spon, London. ISBN 0-419-22020-8
- Forestry Commission UK 1994, *Forest Landscape Design Guidelines*, The Forestry Authority, (FC) (HMSO). ISBN 0 11 710325 X
- The Landscape Institute 2002, *Guidelines for Landscape and Visual Impact Assessment – Second Edition*, E & F N Spon, London. ISBN 0-415-23185-X

## Module 9 Native forest silviculture prescriptions

### Overview

This module provides participants with the skills and knowledge to plan suitable silvicultural prescriptions for native forest clearfell or partial harvest operations.

Topics to be covered:

- native forest harvest prescriptions
- native forest regeneration prescriptions
- seed collection, preparation and sowing
- stocking standards
- browsing controls.

### Demonstrated prerequisite knowledge and skills

- Minimum of three years practical field forestry experience, with a minimum of one year working with the Tasmanian forest practices system.
- Knowledge of native forest silviculture.

### Learning outcomes

At the completion of this module participants should be able to:

- define, plan and implement suitable harvest and regeneration prescriptions for native forest clearfell or partial harvest operations
- define, plan and implement suitable seed collection, preparation and sowing to meet stocking standards and forest management objectives
- define regeneration stocking standards and implement surveys for monitoring post harvest
- plan and implement suitable browsing controls
- identify key resources for planning and implementing native forest harvest and regeneration techniques.

### Delivery

This unit will be delivered over two sessions.

Session 1	Native forest silviculture	120 mins
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### Assessment

Participants will be required to complete the silviculture section for a forest practices plan, to be completed in their own time and submit it by a nominated date.

## Course material/handouts

- prepared PowerPoint presentation
- workshop exercises
- preferred statements
- native Forest Silviculture Technical Bulletin Series.

## Contact details

Mark Neyland  
 Manager, Research & Development  
 Forestry Tasmania  
 6235 8307; 0419 123 244  
 mark.neyland@forestrytas.com.au

## References/information

### Tasmanian Native Forest Silviculture Technical Bulletin Series

No	Title	Latest revision
1	Eucalypt Seed and Sowing	2010
2	<i>Eucalyptus delegatensis</i> Forests	2010
3	Lowland Dry Eucalypt Forests	2009
4	High Altitude <i>E. dalrympleana</i> and <i>E. pauciflora</i> Forests	1990
5	Silvicultural Systems	2010
6	Regeneration Surveys and Stocking Standards	2010
7	Remedial Treatments	2009
8	Lowland Wet Eucalypt Forests	2009
9	Rainforest Silviculture	1998
10	Blackwood	2005
11	Silvicultural Use and Effects of Fire	1993
12	Monitoring and Protecting Eucalypt Regeneration	2011
13	Thinning Regrowth Eucalypts	2001

## Module 10 Plantation silviculture prescriptions

### Overview

This module provides participants with the skills and knowledge to plan suitable silvicultural prescriptions for plantation operations.

Topics to be covered:

- plantation establishment and maintenance, and streamside rehabilitation
- herbicides, pesticides and fertilizers.

### Demonstrated prerequisite knowledge and skills

Minimum of three years practical field forestry experience, with a minimum of one year working with the Tasmanian forest practices system.

### Learning outcomes

At the completion of this module participants should be able to:

- plan and implement suitable browsing control measures for the maintenance of plantations
- plan and implement suitable prescriptions for the establishment of plantations, including selection of species and growing stock and site preparation, including cultivation and weed control
- identify the guidelines relating to the use of herbicides, pesticides and fertilizers in plantation management
- identify and understand key resources for planning and implementing the establishment, management s.

### Delivery

This unit will be delivered over two sessions:

Session 1	Provisions of the <i>Forest Practices Code</i> relevant to plantations and discussion on learning outcomes.	120 mins
Session 2	Field assessment	150 mins

2012-13 FPO course only – no field component with this module.

### Assessment

Participants will be required to complete a questionnaire in their own time and submit it by a nominated date.

### Course material/handouts

Participants may be given course notes at the commencement or during the presentation of this unit. Participants are also expected to make their own notes.

## Contact details

Robin Dickson  
Operations Manager Plantations  
Gunns Limited  
6335 5364 or 0418 358 785  
robin.dickson@gunns.com.au

## References/information

- *Forest Practices Act 1985*
- *Forest Practices Regulations 2007*
- *Forest Practices Code 2000*
- Drainage Depression Guidelines
- Agricultural and Veterinary Chemicals (Control of Use) Act and regulations
- Good Neighbour Charter
- other guidelines developed by the FPA associated with Plantation Management.

## Module 11 Soils and water

### Overview

This module provides participants with skills and knowledge to plan suitable prescriptions to minimise soil erosion, landslides and stream management in forest estates.

Topics to be covered:

- soils and soil erodibility
- landscape stability and landslide risk
- streams and drainage depression management
- catchment issues and basic hydrological principles.

### Demonstrated prerequisite knowledge and skills

- Minimum of three years practical field forestry experience, with a minimum of one year working with the Tasmanian forest practices system.
- Ability to identify basic rock types and understand basic soil nomenclature.

### Learning outcomes

After completing this module participants should be able to:

- identify the broad physical and chemical properties of the major soil groups found in the forest estate
- identify soils with low, moderate, moderate to high, high and very high soil erodibility
- identify the basic soil horizons in a soil profile and understand the significance of subsoil mottling
- distinguish soils of sandy, silty and clayey texture (particle size)
- understand (broadly) the amount of nutrient loss that can occur with fires
- relate likely soil erodibility to forest types and geological substrate
- understand the pattern of water use of regenerating native forests and plantation forests
- understand the cumulative effects of harvest within catchments on water runoff and erosion
- distinguish at least two different forms of landslides (rock slides and debris flows) and name their main geomorphological features
- identify the main causes of landslide movement, whether natural or man-made
- list erosion risks associated with building roads, and describe measures that can prevent and mitigate erosion
- classify Class 4 streams for the purpose of defining their erosion risk, and be able to key out appropriate prescriptions for their protection

- understand the importance of protecting drainage depressions in order to prevent movement of sediment, nutrients and applied chemicals into watercourses
- determine site rehabilitation/revegetation processes, particularly in regards to at-risk riparian zones
- research basic soil information, including soil name, geological substrate, soil erodibility and landslide risk.

### Delivery

This module will be delivered as follows:

Session1	Soils and soil erodibility	50 min
Session 2	Landscape stability and landslide risk	20 min
Session 3	Streams and drainage depression management	30 min
Session 4	Catchment issues and basic hydrological principles	30 min
<del>Session 5</del>	<del>Field assessment</del>	<del>180 min</del>

2012-13 FPO course only – no field component with this module.

### Assessment

Participants will be required to complete an assignment covering each of the above sessions and submit it by a nominated date.

### Course material/handouts

Participants will be given course notes during the presentation of this module.

### Contact details

Peter McIntosh  
Senior Scientist, Earth Sciences  
Forest Practices Authority  
6233 8717  
peter.mcintosh@fpa.tas.gov.au

### References/information

- *Forest Soils of Tasmania* (printed book)
- New Guidelines for the Protection of Class 4 streams [www.fpa.tas.gov.au](http://www.fpa.tas.gov.au)
- Dolerite talus guidelines [www.fpa.tas.gov.au](http://www.fpa.tas.gov.au)
- Basalt talus Guidelines [www.fpa.tas.gov.au](http://www.fpa.tas.gov.au)
- Forest Soil Fact Sheets 1-36 [www.fpa.tas.gov.au](http://www.fpa.tas.gov.au)
- Spray Guidelines for High Risk Situations
- Guidelines for Drainage Depressions
- Strahan Guidelines

## Module 12 Biodiversity

### Overview

This module gives participants an understanding of the legislation, policy (including objectives and goals), processes and planning tools relating to the management of biodiversity in areas covered by the forest practices system. Participants will be provided with basic skills and knowledge to apply the biodiversity provisions of the Forest Practices Code when preparing and implementing a forest practices plan or other planning instruments developed for activities covered by the forest practices system.

Participants who successfully complete this module may qualify as FPO (Inspecting). To enable upgrade to FPO (Planning) nominees are required to complete the FPA Fauna Course II and FPA Forest Botany Course II, which are provided by FPA every two years.

Topics to be covered:

- overview of biodiversity values covered by the forest practices system and the approach to management
- legislation, policy and processes associated with biodiversity management
- *Forest Practices Code* biodiversity provisions (principles, objectives and recommended actions)
- an introduction to planning tools for biodiversity values
- use of planning tools in the development of a biodiversity evaluation
- implementation of provisions for biodiversity during operations.

### Desirable prerequisite knowledge and skills

- Minimum of three years practical field forestry experience, with a minimum of one year working with the Tasmanian forest practices system AND a demonstrated understanding of biodiversity evaluation forms preparation (may include assisting in preparation).

Note: after 2012 FPA Fauna I and Botany I courses will be incorporated into Module 12 learning outcomes. Attendance of the FPO training course will require completion of the Fauna I and Botany I courses.

### Learning outcomes

After completing this module participants should have:

- a basic understanding of the biodiversity values covered by the forest practices system
- an understanding of the legislation, policy, inter-departmental agreements and processes relevant for biodiversity conservation via the forest practices system, including the Tasmanian Regional Forest Agreement, the Permanent Native Forest Estate Policy and the *Threatened Species Protection Act 1995*

- an understanding of the requirements of the Tasmanian *Forest Practices Code* and supporting policy, as it relates to biodiversity management and conservation
- an understanding of the information available from databases on species distribution, communities and biodiversity-related issues
- an understanding of the procedures to assess habitat suitability for forest-dependant threatened or priority species at a site and the development of appropriate management actions using planning tools and reference material
- an understanding of appropriate methods to evaluate biodiversity in a proposed operational area. Including use of appropriate ground survey techniques, planning tools and databases
- an understanding of how to use planning tools to identify forest communities
- the ability to complete a biodiversity evaluation and follow processes to an accepted standard
- knowledge of and understand how to use planning tools to identify forest communities

## Delivery

This module will be delivered over three sessions as follows:

### Session 1 - Fauna Course I (1-day)

- Introduction to Tasmania's forest fauna, their habitats and management 120 mins
- Policy, legislation, fauna management via FP system 20 mins
- Planning tools and planning process 90 mins
- Completion of a biodiversity evaluation (fauna component) 30 mins
- Field trip – Implementation of Code provisions for the management of biodiversity values.

### Session 2 - Botany course I (2-days)

- Introduction to the flora of Tasmania- eucalypts, identifying trees shrubs, and patterns and processes 240 mins
- Forest management and conservation 90 mins
- Legislation, policy, processes and planning tools 210 mins
- Field trip (2 afternoons) – Plant identification, use of the Botany manual and completion of a biodiversity evaluation (flora component)

### Session 3 – Biodiversity recap 90 mins

- Biodiversity values
- Objectives, legislation and policy
- Planning tools and processes
- Monitoring

- Biodiversity evaluation exercise
- Assignment

See Appendix A for details relating to Sessions 1 and 2.

### **Assessment**

Participants will be required to:

- Undertake a written assignment, which covers material and concepts presented under the module through Fauna course I, Botany course I and Biodiversity recap), to be completed independently and submitted by a nominated date.

### **Course material/handouts**

Participants will be given comprehensive course notes at the commencement of the presentation of this unit, including some of the references/information indicated below.

### **Contact details**

Dr Sarah Munks  
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Tim Leaman  
Ecologist – Biodiversity Program  
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Anne Chuter  
Ecologist – Biodiversity Program  
Forest Practices Authority  
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anne.chuter@fpa.tas.gov.au

### **References/information**

- relevant sections of *Forest Practices Code*
- relevant parts of FPA website
- *A guide to planning approvals for forestry in Tasmania*
- information on Threatened Fauna Adviser program and planning guidelines
- information on biodiversity databases – Natural Values Atlas and Biodiversity Values database
- *Forest Botany Manual*

- Species identification material, and other information, including Eucaflip, threatened species information sheets
- Community identification material, and other information, including threatened community information sheets, TASVEG maps and descriptions
- Other Tasmanian vegetation references
- FPA fauna and flora technical notes
- FPA Biodiversity evaluation sheet.
- Users manual for notification system

## Module 13 Communication/conflict resolution

**Module 13 will not be delivered in the 2012-13 FPO training course.**

### Overview

This module provides participants with skills and knowledge to communicate and interact effectively with other workers including gathering, conveying and receiving information through verbal and written forms and participating in work relations and conflict resolution.

Topics include:

- principals of communication including verbal and non verbal
- communication in the work place
- problem identification
- negotiation skills
- conflict resolution.

### Demonstrated prerequisite knowledge and skills

- Minimum of three years practical field forestry experience, with a minimum of one year working with the Tasmanian forest practices system.
- Certificate 2 or higher in communication skills.

### Learning outcomes

At the completion of this module participants should be able to:

- communicate and interact with others with regard to organisational and site standards and requirements
- work with established communication channels and protocols
- identify problems and resolve conflicts
- use basic principles of effective communication
- comply with basic principles of working relationships
- adhere to organisational standards for the presentation of written information
- participate in and understand basic workplace meeting procedures
- understand the types of verbal, written and visual communication.

**Delivery**

This module will be delivered over three sessions, each session will incorporate group activities:

Session 1	Principles of communication	60 mins
Session 2	Conflict resolution	90 mins
Session 3	Interaction with others; problem solving and negotiation skills	150 mins

**Assessment**

Participants will be required to complete an assignment in their own time and submit it by a nominated date.

**Course material/handouts**

Participants will be given course notes during the presentation of this module.

**Contact details**

This module will not be delivered in the 2012-13 FPO training course.

**References/information**

*Communicate & Interact Effectively in the Workplace* (Forest Operations) Manual, Tasmanian Skills Institute, Natural Resources Section.

## Module 14 Forest practices plan preparation

### Overview

This module provides participants with the necessary skills and knowledge to collect the appropriate information and prepare a forest practices plan.

Topics to be covered:

- *Forest Practices Code* and forest practices plans
- components of a forest practices plan
- who should be consulted
- preparation of a plan.

### Demonstrated prerequisite knowledge and skills

Minimum of three years practical field forestry experience, with a minimum of one year working with the Tasmanian forest practices system.

### Learning outcomes

At the completion of this module participants should be able to:

- understand the relationship between the *Forest Practices Code* and forest practices plans
- list the information required to prepare a forest practices plan, and how to obtain that information
- determine who should be consulted during forest practices plan preparation
- prepare a forest practices plan including completion of forest practices plan forms using appropriate wording, and undertaking appropriate checks before certifying a forest practices plan.

### Delivery

This module will be delivered as follows:

Session 1	<i>Forest Practices Code</i> and Forest Practice Plans	90 mins
Session 2	Information required and how to source it including specialists to consult	30 mins
Session 3	Review field exercise and field trip	150 mins
Session 4	Post-field trip group discussion	45 mins
Session 5	Overview of FPP preparation requirements	15 mins

**Assessment**

Participants will be required to complete and submit for assessment a forest practice plan(s). The plan(s) must incorporate:

- roading and/or maintenance
- harvesting
- conservation of natural and cultural values
- establishment and maintaining forests
- management of fuels, rubbish and emissions.

**Course material/handouts**

Participants will be given course notes during the presentation of this module.

**Contact details**

Vanessa Thompson  
Senior Planner  
Forestry Tasmania (Derwent)  
6235 8316  
vanessa.thompson@forestrytas.com.au

**References/information**

- *Forest Practices Code 2000*
- samples of completed forest practice plans

## Module 15 Monitoring and compliance assessment

### Overview

This module provides participants with the skills and knowledge to be able to monitor forest practices and to assess operations to ensure compliance with a forest practices plan.

Topics to be covered:

- monitoring and assessment process within the FPA
- legislation and codes of practices
- role of supervision and monitoring
- certificate of compliance.

### Demonstrated prerequisite knowledge and skills

Minimum of three years practical field forestry experience, with a minimum of one year working with the Tasmanian forest practices system.

### Learning outcomes

At the completion of this module participants should be able to:

- monitor forest practices to assess compliance with legislation and codes of practice
- report results in appropriate style and format
- complete certificates of compliance
- understand the formal monitoring and assessment process of the FPA.

### Delivery

This module will be delivered as follows:

Session 1	Legislation and assessment methodology	45 mins
Session 2	Site assessments and certificate of compliance	45 mins
Session 3	Field trip	180 mins

### Assessment

Participants will be required to complete an on-site field inspection and submit a certificate of compliance.

### Course material/handouts

Participants will be given course notes during the presentation of this module.

## Contact details

Mick Schofield  
Manager Compliance  
Forest Practices Authority  
62335453 or 0428515956  
mick.schofield@fpa.tas.gov.au

## References/information

- Completed certificates of compliance
- *Forest Practices Code 2000*
- FPA Annual Report ([www.fpa.tas.gov.au/publications](http://www.fpa.tas.gov.au/publications))
- *FPA Monitoring and Assessment Protocols* ([www.fpa.tas.gov.au/publications](http://www.fpa.tas.gov.au/publications))

## Appendix A

### Botany Course I

#### Overview

This course gives participants an understanding of the flora of Tasmania. Participants will be provided with the basic botanical background knowledge to plan for biodiversity values when developing forest practices plans for activities covered by the forest practices system.

This course is part of Module 12 Biodiversity in the FPO Training Resource Manual.

Topics to be covered:

- flora of Tasmania
- Tasmanian eucalypts
- identifying trees and shrubs
- patterns and processes in Tasmania's vegetation
- forest management and conservation.

#### Desirable prerequisite knowledge and skills

This course is predominantly for those working within the forest practices system in Tasmania.

#### Learning outcomes

At the completion of this module participants should be able to:

- demonstrate understanding of ecological processes in different forest types in Tasmania
- identify common flora species that are associated with vegetation types in a region
- identify forest and non-forest vegetation types using characteristics of vegetation structure and composition.
- identify native vascular species and other characteristics that are used in planning tools (notably the *Forest Botany Manual*) to discriminate between plant communities in Tasmania
- demonstrate an understanding of the approach to the management and conservation of forests in Tasmania.
- demonstrate an understanding of the impacts to biodiversity that are likely to occur at different temporal and spatial scales either through existing or substantially altered forest management regimes.

**Delivery**

This course will be delivered over one day by FPA Biodiversity Program staff and external presenters.

The course will be run every second year. The first course will be in 2012.

**Assessment**

Participants will be required to undertake a field assessment in their own time and submit it by a nominated date (for people wishing to attend FPO training courses).

**Course material/handouts**

Participants will be given comprehensive course notes at the commencement of the presentation of this unit.

**Cost**

As not part of core business there will be a charge to all (FPOs and external clients) for this course.

**Contact details**

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Anne Chuter  
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Forest Practices Authority  
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anne.chuter@fpa.tas.gov.au

**References/information**

- *Forest Botany Manual*
- species identification material, and other information, including Eucaflip, threatened species information sheets
- community identification material, and other information, including threatened community information sheets, TASVEG maps and descriptions
- other Tasmanian vegetation references

## Fauna Course I

### Overview

This course gives participants an understanding of the Fauna of Tasmania. Participants will be provided with the basic zoological background knowledge to plan for biodiversity values when developing forest practices plans for activities covered by the forest practices system.

This course is part of Module 12 Biodiversity in the FPO Training Resource Manual.

Topics to be covered:

- forest fauna of Tasmania (invertebrates and vertebrates)
- Tasmanian threatened species and other species of high conservation significance
- fauna communities and habitats in different forest types
- basic identification skills
- management and conservation.

### Desirable prerequisite knowledge and skills

This course is predominantly for those working within the forest practices system in Tasmania.

### Learning outcomes

At the completion of this module participants should be able to:

- demonstrate understanding of ecological processes and habitat influencing the occurrence of different fauna groups
- identify fauna species that are associated with vegetation types in a region
- demonstrate an understanding of the approach to the management and conservation of forest fauna in Tasmania
- demonstrate understanding of the impacts to fauna that are likely to occur at different temporal and spatial scales either through existing or substantially altered forest management regimes.

### Delivery

This course will be delivered over one day by FPA Biodiversity Program staff and external presenters. The course will be run every second year. First course in 2011.

### **Course material/handouts**

Participants will be given comprehensive course notes at the commencement of the presentation of this unit.

### **Cost**

As not part of core business there will be a charge to all (FPOs and external clients) for this course.

### **Contact details**

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## Fauna Course II

### Overview

This course gives participants a detailed understanding of the species of high conservation significance (including threatened fauna) in Tasmania's production forests.

Participants will be provided with background knowledge on species of high conservation significance and the rationale behind current *Forest Practices Code* provisions. They will also gain a detailed understanding of the relevant planning tools and how to implement the management recommendations they deliver. This will enable participants to plan for fauna values to a high level of competency when developing forest practices plans for activities covered by the forest practices system. It may reduce the need to seek further advice.

**This course is recognised as an important requirement for upgrading to FPO (Planning).**

Topics to be covered:

- threatened fauna – biology, ecology and management issues
- Biology and ecology of other species of high conservation significance
- identification of habitat for threatened fauna
- legislation and policy relevant to management of species of high conservation significance
- processes and planning tools relevant to management of species of high conservation significance in areas covered by the forest practices system
- implementation of management prescriptions during planning and operations
- monitoring the implementation of management actions.

### Prerequisite knowledge and skills

- Prior attendance at Fauna I and Botany I.
- This course is predominantly for those working within the forest practices system in Tasmania.

### Learning outcomes

At the completion of this module participants should have:

- a detailed understanding of species of high conservation significance and their habitats (including threatened fauna) in Tasmania's forested landscapes
- an understanding of the impacts to species of high conservation significance that are likely to occur at different temporal and spatial scales either through existing or substantially altered forest management regimes
- an understanding of legislation, policy and processes that specifically relate to species of high conservation significance in areas covered by the forest practices system in Tasmania

- experience in the use of databases and planning tools used in the conservation management of species of high conservation significance in areas covered by the forest practices system.
- a good understanding of the *Forest Practices Code* provisions (including Threatened Fauna Adviser recommendations) that relate to species of high conservation significance in areas covered by the forest practices system.

**Delivery**

This course will be delivered over two days (consisting of a mix of field and presentation room components) by FPA Biodiversity Program staff and external presenters.

The course will be run every second year at the same time as Fauna Course I.

**Assessment**

Participants will be required to undertake a field assessment and complete a biodiversity evaluation, for an area within the range of a threatened fauna species, in their own time and submit it by a nominated date.

**Course material/handouts**

Participants will be given comprehensive course notes at the commencement of the presentation of this unit.

**Cost**

This course is part of the core business of FPA. Therefore it will be run on a cost recovery basis for industry clients. Costs for external clients will include the cost of FPA time.

**Contact details**

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Anne Chuter  
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## **References/information**

- Forest Fauna Manual
- Threatened Fauna Adviser Manual
- Fauna Technical Notes
- species ID notes

## Botany Course II

### Overview

This course gives participants a detailed understanding of the species of high conservation significance (including threatened flora) in Tasmania's production forests.

Participants will be provided with background knowledge on species and communities of high conservation significance and the rationale behind current *Forest Practices Code* provisions. They will also gain a detailed understanding of the relevant planning tools (e.g. *Forest Botany Manual*), their application and how to implement the management recommendations they deliver. This will enable participants to plan for flora values to a high level of competency when developing forest practices plans for activities covered by the forest practices system. It may reduce the need to seek further advice.

**This course is recognised as an important requirement for upgrading to FPO (Planning).**

Topics to be covered:

- threatened flora - biology, ecology and management issues
- biology and ecology of communities of high conservation significance
- identification of habitat for threatened flora
- legislation and policy relevant to management of species of high conservation significance
- processes and planning tools relevant to management of species of high conservation significance in areas covered by the forest practices system.
- implementation of management prescriptions during planning and operations
- monitoring the implementation of management actions.

### Prerequisite knowledge and skills

- Prior attendance at Botany I. Attendance at the FPO Training Course would qualify.
- This course is predominantly for those working within the forest practices system in Tasmania.

### Learning outcomes

At the completion of this module participants should have:

- a detailed understanding of species of high conservation significance and their habitats (including threatened flora) in Tasmania's forested landscapes
- an understanding of the impacts to species of high conservation significance that are likely to occur at different temporal and spatial scales either through existing or substantially altered forest management regimes
- an understanding of legislation, policy and processes that specifically relate to species of high conservation significance in areas covered by the forest practices system in Tasmania

- experience in the use of databases and planning tools used in the conservation management of species of high conservation significance in areas covered by the forest practices system
- a good understanding of the *Forest Practices Code* provisions that relate to species of high conservation significance in areas covered by the forest practices system.

**Delivery**

This course will be delivered over two days (consisting of a mix of field and presentation room components) by FPA Biodiversity Program staff and external presenters. The course will be run every second year from 2012.

**Assessment**

Participants will be required to undertake a field assessment and complete a biodiversity evaluation, for an area within the range of a threatened fauna species, in their own time and submit it by a nominated date.

**Course material/handouts**

Participants will be given comprehensive course notes at the commencement of the presentation of this unit.

**Cost**

This course is part of the core business of FPA. Therefore it will be run on a cost recovery basis for industry clients. Costs for external clients will include the cost of FPA time.

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## **References/information**

- Forest Botany Manual
- Flora Technical Notes
- species ID notes
- flora Listing statements

**Document Control Log Tables**

**Document Summary Information:**

Document name	FPO Training Resource Manual
Trim record	2010/8173
Owner	Jo Field
Author(s)	Jo Field, Graham Wilkinson and FPA specialists
Release date	2008
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Release status	Public document

**Version Control:**

Version	Date	Author(s)	Summary of changes
1	2008	FPA/Tasmanian Skills Institute	Original final document
2	16/03/2009	Jo Field, FPA	New FPA logo inserted on cover page
3	22/05/2009	Jo Field, FPA	Revisions to modules 1,2,3,5,8,10,11,12,14,15,16
4	24/06/2009	Jo Field, FPA	Revisions to all modules; merge module 16 with module 2.
5	12/03/2010	Jo Field, FPA and presenters of the relevant amended modules	Revisions to modules 1,2,5,12+13 (merged),14 changed to 13,15 changed to 14, include new module 15.
5.1	9/12/2010	Jo Field and Sarah Munks, FPA	Final revision to Module 12; addition of prerequisite info re Module 12
5.2	25/02/2011	Chris Grove, FPA	Style edit, no content change
6.0	28/02/2011	Jo Field, FPA	Corrections to editorial changes; changes to module 2 and 5 contact details.
7.0	16/8/2012	Jo Field, FPA	Change names and/or contact details of presenters for modules 4,6,7,8,12;pre-reqs changed for module 12; Update modules 2,3,5,6,7,8,9,10,11,12,13,15 and Appendix A delivery times and/or content.
7.1	20/8/2012	Jo Field, FPA	Minor edits under 'Delivery' section for modules 3 and 6.
7.2	30/8/2012	Jo Field, FPA	Minor edits under 'Delivery' section for module 9; additional references added under module 6.

**Stages required for release outside FPA:**

Category of advice	A2	
Stages	Required/not required	Completed (date)
CFPO	Required	2008
FPAC	Required	2008
Board	Required	2008