



Australian Government

Department of Education, Employment and Workplace Relations

SISOFSH310A Tie simple fishing flies

Release: 2

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Modification History

Not Applicable

Unit Descriptor

This unit describes the performance outcomes, skills and knowledge required to tie a range of simple flies for both salt and freshwater fly fishing. The unit focuses on establishing fly design requirements, selecting appropriate fly patterns and sourcing materials and equipment suitable for tying a range of simple flies.

Application of the Unit

This unit applies to recreational fishers who are required to tie fishing flies for use freshwater and saltwater environments.

This unit may also apply to leaders working for outdoor education or adventure providers; volunteer groups; not-for-profit organisations or government agencies.

Licensing/Regulatory Information

No licensing, regulatory or certification requirements apply to this unit at the time of endorsement.

Pre-Requisites

Nil

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the Evidence Guide.
1. Prepare to tie a fishing fly	1.1. Identify <i>target fish species</i> capable of being lured by an artificial fly. 1.2. Identify the natural foods for each targeted fish species. 1.3. Determine a <i>fly pattern</i> which meets the target species and environmental application. 1.4. Select appropriate <i>fly tying tools and equipment</i> and <i>fly tying materials</i> to match a selected pattern according to <i>organisational policies and procedures</i>.
2. Tie a fishing fly	2.1. Select an appropriate hook and <i>tie the fishing fly</i> as detailed in the fly pattern. 2.2. Add special effects and detail to the fly. 2.3. Finish the fly and add sealers, protectants or floatants as required.
3. Test and evaluate effectiveness of the fishing fly	3.1. Inspect the finished fly to ensure it meets design parameters, presentation requirements and quality of workmanship according to organisational policies and procedures. 3.2. Trial and test fly action in specific fishing environments. 3.3. <i>Evaluate</i> the performance of the fly. 3.4. Identify and implement improvements to the fly as required.

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

- problem-solving skills to:
 - respond appropriately to technology advancements
 - determine techniques and equipment to use when tying fishing flies
 - determine appropriate fly tying equipment and materials
- literacy skills to read, interpret and implement fly tying information, patterns and material data sheets
- planning and organising skills to:
 - source appropriate fly tying equipment and materials
 - determine a fly pattern
 - ensure all gear and equipment is in good working order
- numeracy skills to calculate and estimate material quantities and weights
- self management skills to review and reflect on own performance and set goals to improve techniques.

Required knowledge

- organisational policies and procedures to enable safe conduct of activities
- industry fly tying and fishing terminology to enable appropriate selection of fly fishing tools, equipment and materials
- fly tying construction and evaluation techniques to ensure safe and effective use
- equipment, tools and materials used to tie a simple fishing fly, its characteristics and technology, and advantages and disadvantages of the range of equipment
- natural foods for each targeted fish species
- fly patterns to suit the targeted fish species.

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Evidence of the following is essential:

- demonstrates knowledge of the techniques which apply to the tying of a fishing fly and selects appropriate fly tying tools, equipment and materials to match a selected pattern
- uses a range of common patterns and a variety of fly tying techniques, tools, equipment and materials to tie simple fishing flies
- inspects the finished fly to ensure it meets all requirements and tests it accordingly.

Context of and specific resources for assessment

Assessment must ensure production of multiple simple fishing flies for a range of target species that reflect local conditions to demonstrate competency and consistency of performance.

Assessment must also ensure access to:

- an appropriate workshop or facility to construct a range of tied fly fishing products
- materials and equipment to tie fishing flies
- resources and information regarding fly patterns and methods of tying flies.

Method of assessment

A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit:

- observation of testing and evaluating completed fishing flies
- oral or written questioning to assess knowledge of fly patterns to suit the targeted fish species and details of fly tying construction aimed at particular fish species
- portfolio of completed fishing flies
- third-party reports from a supervisor detailing performance.

Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, for example:

- SISOFSH205A Construct and work simple fishing lures.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Target Fish species may include:

- trout
- salmon
- barramundi
- mangrove jack
- sooty grunter
- queen fish
- trevally
- pike
- bass
- carp
- snook
- tarpon
- bonefish
- juvenile black marlin
- pacific sailfish
- kingfish
- spanish mackerel
- spotted mackerel
- northern blue fine tuna
- yellow fin tuna
- wahoo
- cobia
- dolphin fish
- bream.

Fly Patterns may include:

- imitative
- attractive
- dry and wet flies
- streamers
- nymphs
- terrestrials
- emergers
- poppers
- hair bugs
- freshwater and saltwater flies

Fly Tying tools and equipment may include:

- blue water flies
- warm water flies
- lake patterns
- still water patterns
- running water patterns
- fly assortments.
- fly tying vises
- lights
- magnifying glasses
- hackle pliers
- needle point pliers
- tweezers
- scissors
- bobbins
- bobbin threaders
- floss bobbins
- hackle gauges
- bodkins
- tooth picks
- dubbing twisters
- dubbing rake
- wing burners
- whip finishers
- hair stackers
- fly-tying kits.

Fly Tying materials may include:

- threads
- yarns
- furs
- hair
- feathers
- wool
- tinsel
- cork
- foam
- balsa
- lead wire
- wire
- hooks or hook storage
- synthetics
- mylar cord
- eyes
- beads, such as glass, ceramic, brass, tungsten

Organisational policies and procedures may include:

- cones
- tying liquids
- silicone
- epoxy resins
- glues
- waxes
- floatants.
- occupational health and safety
- safety and emergency procedures
- use, maintenance and storage of equipment
- manufacturer's design specifications and recommendations for equipment use
- accepted industry best practice
- risk management procedures
- communication protocols
- code of ethics.

Tie the fishing fly may include:

- additional ballast materials
- tread starting techniques
- wrapping or winding techniques
- whip finishing of threads
- application of tying liquids
- dubbing processes
- hackle fitting techniques
- head wrapping techniques
- addition of special effect materials
- use of sealers
- fly finishing processes
- fly protectant chemicals or lacquers
- fly floatant chemicals.

Evaluation may include:

- presentation of fly on or in the water
- ability to attract fish
- ability to catch fish
- efficiency of fly in catching fish
- durability
- ease of use
- cost of tying
- level of difficulty
- accuracy in casting.

Unit Sector(s)

Outdoor Recreation

Competency Field

Fishing