

MASTER SPINNER CERTIFICATE PROGRAM

The Olds College Master Spinner Certificate Program consists of six progressive levels of classroom and independent study involving skill development, research studies and project assignments in the area of hand spinning of all major types of fibres, yarns and the end use of the spun yarns.

Levels 1-4 consist of a five-day (30 hours) workshop while Levels 5 and 6 are seven days (42 hours) in length. Each level is followed by an independent home study portion for those students working towards certification.

A distance learning option for experienced spinners is available for Levels 1-2.

At all levels, students are evaluated on the basis of written assignments, practical projects, oral presentations and skill development.

Those individuals who successfully complete the assignments in all six levels will receive a Master Spinner Certificate from Olds College.

Master Spinner Level I Competency Profile

Selection of fibre A	Select appropriate fleece for project. A1	Skirt fleece before using wool. A2	Sort fleece into sections. A3	Select silk fibre for blending. A4
Use spinning equipment. B	Use selected spindles to spin yarn. B1	Select carders for carding wool. B2	Select spinning wheel for spinning. B3	Identify equipment problems. B4
Prepare wool fibre. C	Wash fleece before carding. C1	Tease and card wool before spinning. C2	Blend wool with silk to create yarn. C3	Determine preparation methods of wool. C4
Make yarn. D	Spin using primitive spinning methods. D1	Spin on spindle. D2	Spin single on spinning wheel. D3	Ply singles to make a plied yarn. D4
	Use niddy noddy to make skein. D5	Identify spinning technique errors. D6		
Dye fibre/yarn. E	Prepare yarn for dyeing. E1	Prepare natural dye materials for dye bath. E2	Prepare dye bath for natural dyeing. E3	Dye yarn in natural dye bath. E4
Display knowledge F	Explore different resources for reference material. F1			

Master Spinner Level 2

Competency Profile

Select appropriate fibre.	Select fleece for a specific project. A1	Select silk for spinning. A2	Select llama fibre for spinning. A3	Select alpaca fibre for spinning. A4
	Select mohair for spinning. A5	Select camel fibre for spinning. A6		
Prepare fibre.	Hand card fibre before spinning. B1	Blend different fibres to create yarn. B2	Blend different colored wool tops to create yarn. B3	Calculate amount of wool needed for a specific project. B4
Make yarn.	Spin single with specific twist per inch (TPI). C1	Ply yarn with specific twist per inch (TPI). C2	Spin different kinds of yarn. C3	Spin yarn for a specific end use. C4
	Spin the different fibres into yarn. C5			
Use spinning equipment	Use selected spindles for spinning yarn. D1	Research different spinning wheels. D2	Use spinning wheel for spinning yarn. D3	
Display knowledge.	Read books related to spinning. E1			

Master Spinner Level 3 Competency Profile

Select appropriate fibre. A	Select cotton fibre for spinning. A1	Select ramie fibre for spinning. A2	Select silk for spinning. A3	Select wool for spinning. A4
Prepare fibre. B	Select appropriate method of preparing cotton fibre for spinning. B1	Select appropriate method of preparing ramie fibre for spinning. B2	Select appropriate method of preparing silk for spinning. B3	Select appropriate method of preparing wool for spinning. B4
Make yarn. C	Spin yarn with specific twist per inch (TPI). C1	Calculate count of yarn. C2	Reproduce commercial yarn. C3	Create novelty yarns. C4
	Spin yarn for a specific end use. C5			
Use spinning equipment. D	Use support spindle for spinning yarn. D1	Research spinning wheel technology. D2	Use different kinds of spinning wheels to spin yarn. D3	
Dye fibre/yarn. E	Prepare 25 skeins for dyeing. E1	Prepare natural dye materials for dye bath. E2	Prepare natural dye bath for dyeing. E3	Dye the 25 skeins in the natural dye bath. E4

Master Spinner Level 3 Competency Profile

Dye fibre/yarn cont'd E	Modify the skeins to change colors. E5			
Research resources. F	Research information about spinning songs. F1			

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Master Spinner Level 4 Competency Profile

Select appropriate protein fibre.	Select silk for spinning. A1	Select soy silk for spinning. A2	Select mohair for spinning. A3	Select camel fibre for spinning. A4
	Select cashmere fibre for spinning. A5	Select wool for spinning. A6	Perform burn-test on protein fibre. A7	
Select appropriate cellulose fibre.	Select ramie fibre for spinning. B1	Select cotton fibre for spinning. B2	Select flax for spinning. B3	B4
Prepare protein fibre.	Select appropriate method of preparing silk for spinning. C1	Select appropriate method of preparing camel fibre for spinning. C2	Select appropriate method of preparing cashmere fibre for spinning. C3	Select appropriate method of preparing protein fibre for spinning. C4
	Comb wool in preparation for spinning. C5	Blend black and white merino to create grey yarns. C6		
Prepare cellulose fibre.	Select appropriate method of preparing flax for spinning. D1	Select appropriate method of preparing other cellulose fibre for spinning. D2		

Master Spinner Level 4 Competency Profile

Make yarn.	Spin flax into yarn. E1	Manipulate fibre to create designer yarns. E2	Spin yarn for a specific end use. E3	Spin cellulose fibre into yarn. E4
	Spin protein fibre into yarn. E5	Calculate count of yarns. E6		
Dye fibre/yarn.	Prepare protein fibre/yarn for chemical dyeing. F1	Prepare dye bath for chemical dyeing of protein fibre/yarn. F2	Dye protein fibre/yarn in chemical dye bath. F3	Dye 12 skeins for colour wheel. F4
	Dye skeins using the percentage dyeing method. F5			
Display knowledge.	Prepare a class presentation. G1			

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Master Spinner Level 5 Competency Profile

Select appropriate man made fibre.	Select nylon for spinning. A1	Select polyester for spinning. A2	Select rayon for spinning. A3	Select bamboo & ingeo for spinning. A4
	Perform burn test on man made and cellulose fibre. A5			
Select appropriate cellulose and protein fibre.	Select hemp for spinning. B1	Select wool for spinning. B2	Select buffalo for spinning. B3	Select angora for spinning. B4
Prepare fibre.	Select appropriate method of preparing man made fibre. C1	Select appropriate method of preparing protein fibre. C2	Select appropriate method of preparing cellulose fibre. C3	Prepare cocoons for a mawata. C4
	Prepare fibre and colors to produce yarn. C5	Comb wool for spinning worsted yarn. C6		
Make yarn.	Spin yarn with specific TPI. D1	Spin yarn using the long draw method. D2	Spin yarn for a specific end use. D3	Spin yarn by manipulation to produce designer yarns. D4

Master Spinner Level 5 Competency Profile

<p>Make yarn cont'd.</p> <p style="text-align: right;">D</p>	<p>Use carded or blended fibres to design yarns.</p> <p style="text-align: right;">D5</p>	<p>Spin yarn from a silk mawata.</p> <p style="text-align: right;">D6</p>	<p>Calculate count of yarn.</p> <p style="text-align: right;">D7</p>	
<p>Use spinning equipment.</p> <p style="text-align: right;">E</p>	<p>Use spinning wheels with different ratios to produce yarn with different TPI.</p>			
<p>Dye fibre/yarn.</p> <p style="text-align: right;">F</p>	<p>Prepare cellulose fibre/yarn for chemical dyeing.</p> <p style="text-align: right;">F1</p>	<p>Prepare chemical dye bath for dyeing cellulose fibre/yarn.</p> <p style="text-align: right;">F2</p>	<p>Dye cellulose fibre/yarn in chemical dye bath.</p> <p style="text-align: right;">F3</p>	<p>Dye 12 cellulose skeins to make a color wheel.</p> <p style="text-align: right;">F4</p>
	<p>Dye skeins using the percentage dyeing method.</p> <p style="text-align: right;">F5</p>	<p>Dye skeins in a lichen dye bath.</p> <p style="text-align: right;">F6</p>		
<p>Display knowledge.</p> <p style="text-align: right;">G</p>	<p>Prepare a class presentation.</p> <p style="text-align: right;">G1</p>			

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Master Spinner Certificate - Level VI

Prerequisites: Spinning Level V
Corequisites: None

Description:

The final level of the spinning program includes concentrated study and skill development using silk, dyeing with indigo, advanced spinning techniques and an in depth study.

Competencies:

1. Ability to design yarns to specific count.
2. Ability to identify the characteristics of protein and cellulose fibres
3. Ability to process silk cocoons from raw state through all stages, including reeling and throwing to finished yarn.
4. Demonstrate quality control in spinning by producing specified twist, grist, handle, and uniformity in the yarn.
5. Knowledge of chemical dyes on protein fibres.

Content:

- 1. History of Spinning**
 - origin
 - types and origins of spinning apparatus
 - materials used
 - development of mechanical spindles
- 2. Spindles**
 - types
 - techniques for using each type
 - student practice with spindles
- 3. Indigo Dyeing**
 - materials and equipment use
 - preparation of the dye bath
 - dyeing process

- care of the dye bath
- characteristics of the medium

4. Silk

- reeling silk cocoons
- throwing and degumming
- silk spinning

5. Quality control in spinning

- size, twist, uniformity
- in plied skeins

Evaluation:

Evaluation is based on the successful completion of the following:

Quizzes	10%
Samples	45%
In depth study	45%

Most quizzes take the form of oral and written questions, completion of specified samples or skill demonstrations. All samples are completed in class.

Using the topic and outline developed and approved at Level IV, the student will produce an in depth study on one aspect of hand spinning. All work on this project is completed outside the regular class hours. This study is to be original research on the part of the student.

Method of Determining Final Grade:

All final grades will be awarded as percentages based on the classroom mark plus the in depth study. Pass is 70%.

Resource Materials:

Required: Spinning Wheel
Materials as outlined on supply list