




<p>Unit Standard 4721 V5</p> <p>Demonstrate knowledge of the movements and timings of Raschel element bars to the needle action</p> <p>Level 3, 7 Credits, Open Entry</p>	<p>Trainee: _____</p> <p>Assessor: _____</p>
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Unit Requirements	<p>To be credited with this unit standard you must be able to;</p> <ul style="list-style-type: none"> ➤ identify and describe the relationships of element bars and needle bar; ➤ at the critical positions of the knitting cycle; ➤ relate the pattern-control system to the overlap and underlap movements of the guide bars; ➤ and relate the control of knitting quality of ; ➤ Raschel fabrics to take-up roller speed.
Special note:	<p>This unit standard applies to the Raschel sector of the knitting industry.</p> <p>This unit standard will apply to one or more of the following types of machine, according to the mix of machines that the mechanic services:</p> <ul style="list-style-type: none"> latch needle, single needle bar machine; latch needle, double needle bar machine; compound needle, single needle bar machine; carbine needle, single needle bar machine (Raschel-crochet machine). <p>The pattern-control system in use may be operated by means of chain links or electronic selection according to the system(s) in use in the workplace.</p> <p>Technical aspects that are required to be covered in demonstrating competence in this unit standard include:</p> <ul style="list-style-type: none"> the needle bar movement; the critical stages of the knitting cycle; the cycle of movements of the guide bars and other element bars relative to the needle bar or bars; the control of the guide bars during their lapping movements; the distinction between underlaps and overlaps; the lack of overlaps on inlay or patterning guide bars; the manner in which inlay or patterning yarns are held in the fabric; the chain-link numbering system; the control of the quality of any fabric by means of the take-up rollers; run-ins and beam let-offs, the rack (480 courses) as the standard unit in warp-knitting. <p>Performance of the elements conform to the Health and Safety in Employment Act 1992.</p>

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<p>Notes to Trainee</p>	<p>This assessment document is not a training programme. The training programme for the skills and knowledge required for this unit will be provided by your employer as part of your on-job training, or by programs from training providers. This document is a guide for you, your trainer, and your assessor for the assessment once you have learned and practised the skills involved.</p> <p>The time you will need to spend on training and practice to reach the standard which demonstrates that you are competent in this area will of course depend on other tasks that you may also have which are not part of this unit standard.</p>  <p>(Trainee can answer verbally or in writing.) (Trainee to write or assessor to record)</p>
<p>Assessment</p>	<p>Assessment for many of the tasks will be to workroom standards and workplace procedures. You will need to discuss what these standards are with your trainer and/or assessor during your training period so that you are aware of what is required. Where these standards and work instructions are written down, you should collect copies so that you have something to refer to. Your assessor will also refer to these when you are being assessed.</p> <p>In some cases for workplace skills, your Assessor may use someone with specialised knowledge of the process or machine to confirm your skills. This person is called a Verifier.</p> <p>Some assessments require evidence that you demonstrate competence on an ongoing basis. Your assessor may also use a Verifier to confirm that this is the case.</p> <p>You do not need to be assessed for all of the Unit Standard at one time. Assessment can take place as you develop the knowledge and skills. Your assessor will keep a record of progress, and once you have been assessed as competent for all the tasks, you will have completed this unit standard.</p> <p>If any parts of the standard are not met, further evidence of your competence in that task/s will be sought. This is indicated on the Assessment Evidence Guide by the abbreviation FER (Further Evidence Required).</p>

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Assessor must discuss with Trainee prior to assessment	
Before the assessment	<p>If there are any parts of the assessment that you are not clear about, you must ask the assessor before you start the Assessment. You need to agree to the amount and type of evidence to be collected.</p> <p>You must tell the assessor if you have any special needs e.g. hearing or seeing difficulties before doing the assessment tasks. The assessor/verifier will take these special needs into consideration during the assessment.</p>
During the Assessment	<p>The assessment process will consist of questions to assess your knowledge, and observation of you carrying out specific tasks. You would normally answer questions verbally and your assessor will note answers. In some cases you may be able to demonstrate knowledge as a written project. In this case simple diagrams could be used. You should discuss the best way with your assessor.</p> <p>The workplace is often a noisy environment. Your assessor will try and find a quiet place to ask questions so that you are able answer easily. However, in some cases you may feel better able to answer questions at a machine or worksite. You should discuss this with your assessor before the assessment.</p>
After the Assessment	<p>The assessor will tell you if you are ‘competent’ or ‘not yet competent’. Not yet competent means that you have not done the tasks, or part of the tasks to the standard that is needed, and you will have to give the assessor more information. If you need to give the assessor more information then you will be clearly told of what it is that you need to do.</p> <p>You have a right to appeal your assessor’s decision if you are not happy with the assessor’s decision. Your assessor will explain the appeal process.</p> <p>At the end of the assessment you will be asked to sign the assessment to show that you were happy with how the assessment went. Do not sign this section if you do not agree that the assessment was fair.</p> <p>You and your assessor must each sign and keep a copy of the Candidate Check List and the Assessment Record. These are at the back of this Assessment Document.</p> <p>Results of the assessment will be kept by your assessor, passed to your Employer, and sent to the Apparel and Textile ITO who will register competency on the New Zealand Qualifications Framework</p>
Special Needs Identified (enter any special needs here)	
	<p>Assessment Process above has been discussed and Trainee understands the process.</p> <p>Trainee _____ (sign)</p> <p>Assessor _____ (sign)</p>

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Note to Trainee and Assessor:

Some Competence must be shown on one or more of the machines listed in the special notes.

Element 1. Identify and describe the relationships of element bars and needle bar at the critical positions of the knitting cycle

p c 1.1	Individual element and needle bars are identified and described in terms of their functions in the knitting cycle	
Element or needle bar (attach another page if necessary)	Identify and describe what this element or bar does in the knitting cycle	Competent(C) Further Evidence Required (FER) & Sign/Date
Element 1.2	The different bars relative to the needle bar are identified and described in terms of their relationships at each critical position in the knitting cycle	
Position	Identify and describe the relationships of the bars at each knitting position	C /FER & Sign/Date
clearing		

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Element 1.2	The different bars relative to the needle bar are identified and described in terms of their relationships at each critical position in the knitting cycle (cont.)	
Position	Identify and describe the relationships of the bars at each knitting position	C /FER & Sign/Date
overlap		
latch closing as applicable to latch needle machines		
knockover		
underlap		
guide-bar heights		
sinker timing		
Assessor Notes:		

Element 2. Relate the pattern-control system to the overlap and underlap movements of the guide bars.		
		C /FER & Sign/Date
p c 2.1	<p>The distinctions are identified and described between overlaps and underlaps on the ground bars</p> <p>Description:</p>	

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Element 2. Relate the pattern-control system to the overlap and underlap movements of the guide bars. (cont.)		C /FER & Sign/Date
<p>Note to Trainee and Assessor: You need to consider laps used in workplace-based fabrics. You should discuss this in advance with your Trainer and Assessor to determine what fabrics you will be expected to know.</p>		
p c 2.2	The guide bar movements of the inlay or patterning bars are identified and described in terms of the underlaps	
Bar Movement (add an extra sheet if necessary)	Describe the movement in terms of the underlap	
p c 2.3	<p>The relationship between the guide bars and the pattern-control system is identified and described in terms of the guide bar lapping movements.</p> <p>Identify and describe: (add an extra sheet if necessary)</p>	
p c 2.4	<p>Guide bar lapping movements are identified and described in terms of the chain-link numbering system</p> <p>Note to Trainee and Assessor: You need to consider the laps used in the construction of fabrics in your workplace.</p> <p>Identify and describe: (add an extra sheet if necessary)</p>	

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Element 2.5		Guide-bar lapping movements are identified by their chain-link numbers.	
Bar Movement (add an extra sheet if necessary)	Chain Link Number		
Assessor Notes:			

Element 3. Relate the control of knitting quality of Raschel fabrics to take-up roller speed.		
		C /FER & Sign/Date
p c 3.1	The mechanism controlling the fabric take-up roller speed is identified and described in terms of its function Identify and describe: (add an extra sheet if necessary)	

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Element 3. Relate the control of knitting quality of Raschel fabrics to take-up roller speed (cont.)		C /FER & Sign/Date
p c 3.2	<p>The relationship of fabric take-up roller speed to the quality of the fabric is identified and described in terms of courses per centimetre</p> <p>Identify and describe: (add an extra sheet if necessary)</p>	
p c 3.3	<p>The let-off motions controlling the rate of run-in of each of the ground warps are identified, and their adjustment is described in terms of their effects on fabric quality</p> <p>Describe the effect on fabric quality: (add an extra sheet if necessary)</p>	
p c 3.4	<p>The relationship between the underlapping movement of a ground bar and its run-in rate is described in terms of its effect on the rate of yarn usage</p> <p>Identify and describe effect on yarn usage: (add an extra sheet if necessary)</p>	
<p>Assessor Notes:</p>		

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Assessment Decisions: Competent / Not Competent (circle one)

Assessor : _____ **Date:** _____

Action Plan for Further Evidence (if required)

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Special Note

The unit requires that the following technical aspects have been covered in demonstrating competence in this unit standard

Covered

the needle bar movement

the critical stages of the knitting cycle

the cycle of movements of the guide bars and other element bars relative to the needle bar or bars

the control of the guide bars during their lapping movements

the distinction between underlaps and overlaps

the lack of overlaps on inlay or patterning guide bars

the manner in which inlay or patterning yarns are held in the fabric

the chain-link numbering system

the control of the quality of any fabric by means of the take-up rollers

run-ins and beam let-offs

the rack (480 courses) as the standard unit in warp-knitting

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CANDIDATE'S CHECKLIST (candidate to retain).

PRE-ASSESSMENT. (When I meet the assessor:)

		Tick
1	I agree to the unit standards/elements to be used for the assessment.	
2	The purpose and process of the assessment is explained to me.	
3	I agree to the amount and type of evidence to be collected.	
4	I agree to the date, time and location for the assessment.	
5	What happens to the assessment result and the appeals system is explained to me	
6	The assessor agrees to keep my Supervisor/Line Manager informed.	
7	The following resources will be available for the assessment::	

Candidate Signature: _____

Assessor Signature: _____

AFTER ASSESSMENT

1	The assessment was carried out as programmed above.	
2	I was informed of the assessment result.	
3	I was given sufficient feedback after the assessment.	
4	I signed the assessment record.	
5	If assessed competent the assessor signed the assessment record for forwarding to the ITO with my fee/s.	
*	If assessed not yet competent the elements to be reassessed were recorded in the Assessor's Register.	

Candidate Signature: _____

Assessor Signature: _____

Assessor to fill in details below when candidates is assessed competent:

Candidate's name:

Competent in unit standard number: 4721 V5

Assessors signature : _____ Date: _____

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ASSESSMENT RECORD SHEET

Trainee Details (Trainee to complete)

Name _____ Date of birth: _____

Home address: _____

Employer: _____

Signed: _____ Date: _____

Assessor Details (Assessor to fill out)

As an ATITO workplace assessor I verify that I have assessed the person above as competent in the unit standard(s) listed below.

Signed: _____ Date: ____/____/____

WA Number:

Full Name: _____

It is recommended that Workplace Assessors contact the ATITO before embarking on assessment to ensure that they have the latest information.

Unit Id	Unit Standard Title	Level	Credit	Signed (Assessor)
4721 V5	Demonstrate knowledge of the movements and timings of Raschel element bars to the needle action	3	7	

TOTAL CREDITS

Payment for credit fees enclosed (\$1.55 per credit):

YES NO – ATITO will invoice employer - please attach company order number if necessary.

Assessor: Ensure this form is completed in full. Make 2 extra copies. Give one to the trainee, keep one for your files, and send the original to: **Apparel & Textile ITO, PO Box 13-210, Christchurch**