



Integrating Companies in a Sustainable Apprenticeship System

Project 2017-1-DE02-KA202-004174

Intellectual Output 3A

Learning-Teaching Activities

- Cutting -

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1. Work-Based Cutting Training

1.1. What to prepare

In order to start the work-based training, there is a list of things to prepare:

- Knives for cutting by hand + paper, cardboard, textile and leather materials
- Workplace (standing)
- Cardboard shoe parts, transparent plastic shoe parts
- Non-woven sheet material for first real scale cutting exercises
- Printouts of cutting exercises on paper (provided as separate files in the attachment)



Fig. 1: Work-based learning / Cutting by hand



Fig. 2: Standing workplace with cutting mat

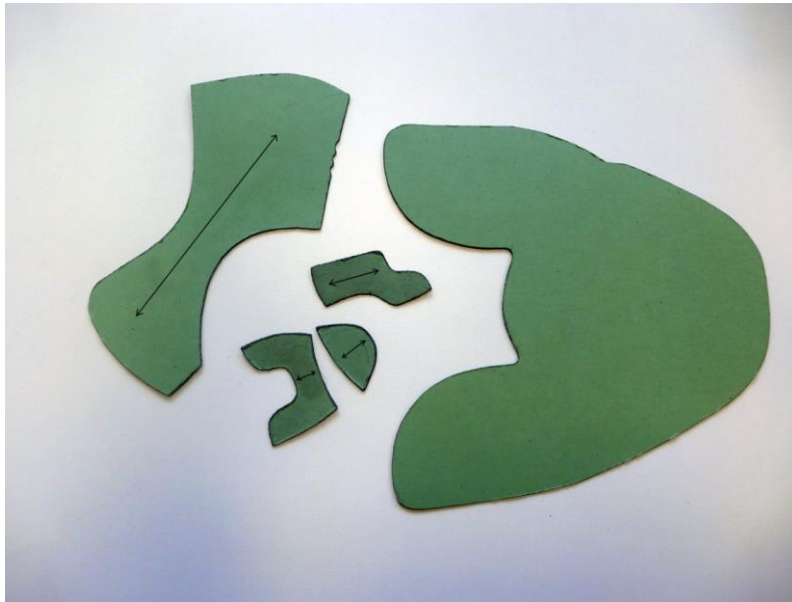


Fig. 3: Real scale and miniature shoe parts for cutting exercises



Fig. 4: Cardboard "leather hide" (dim: ~40x50 cm) with cutting layout done by a trainee (miniature shoe parts)

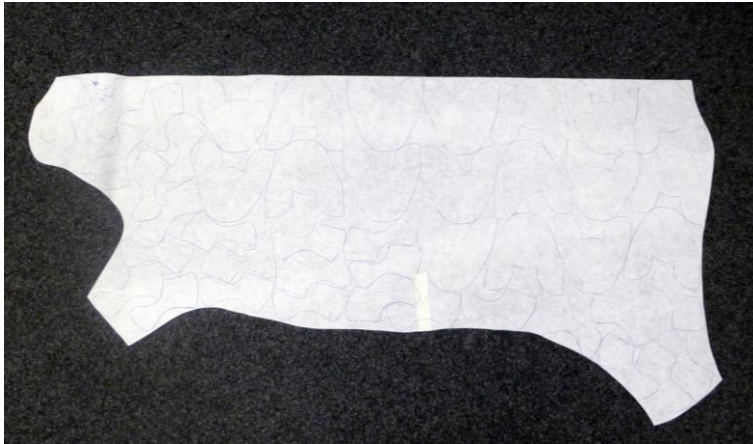


Fig. 5: Real scale half hide (non-woven material) for first real scale cutting exercises



Fig. 6: Transparent shoe parts for nesting exercises



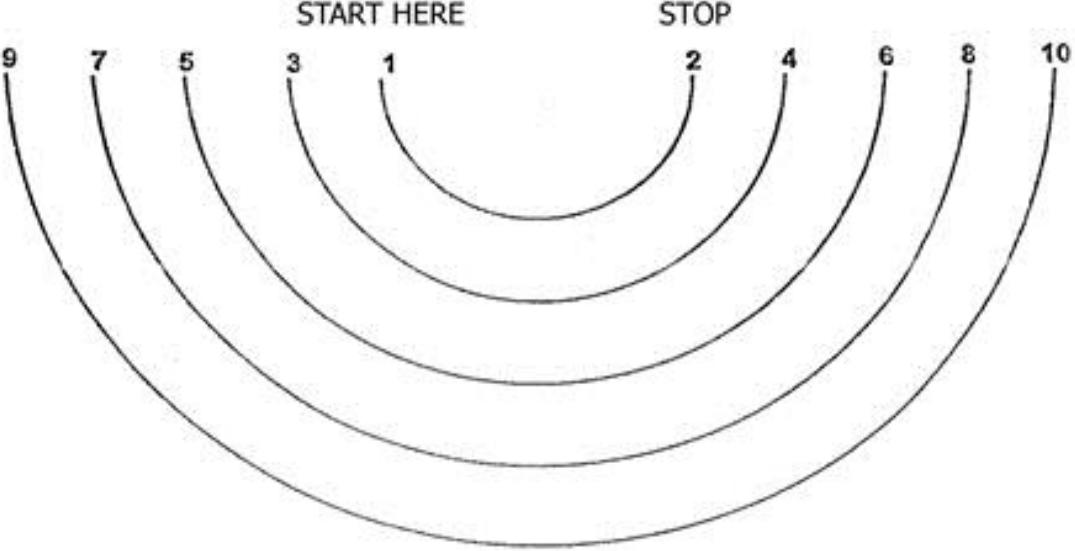
2. Cutting Exercises on Paper (next 10 pages)

ST 1	Straight lines	1 of 10
<p>The diagram shows ten cutting exercises. Exercises 1 through 5 are vertical lines starting from the left edge, labeled 'START'. Exercises 6 through 10 are vertical lines starting from a horizontal line on the right edge, labeled 'START'. A vertical line on the far right is labeled 'Guide Line'. The exercises are numbered 1 through 10 at the top.</p>		
<p>INSTRUCTIONS: Start on the left. Cut top down on the vertical lines (exercises 1 to 5) using the guideline on the right. Continue with exercises 6 to 10. Start at the horizontal line.</p>		

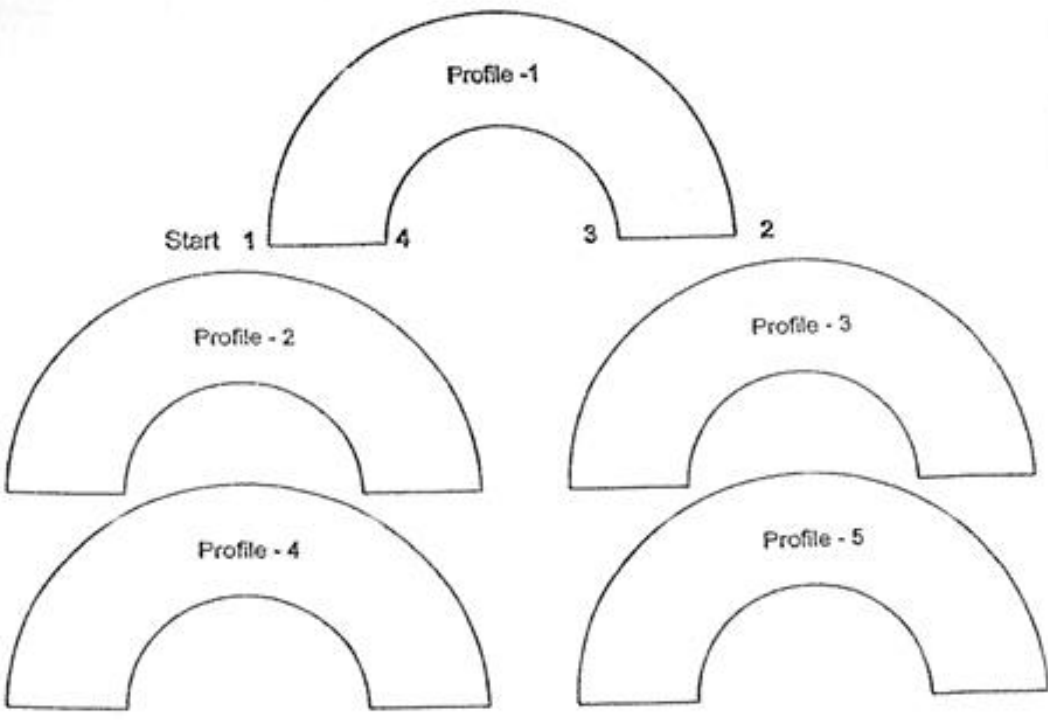
ST 2	Edgy lines	2 of 10
<p>Start</p>		
<p>INSTRUCTIONS: Position your knife on “Starting”. Cut along the line from point 1 to 2. Stop. Then cut from point 2 to 3 Stop. Repeat for points 4 to 20. Never turn the page (you won’t be able to turn a hide, either).</p> <p>Note: Trainee should try to cut in a continuous movement. Instructor clocks time.</p>		

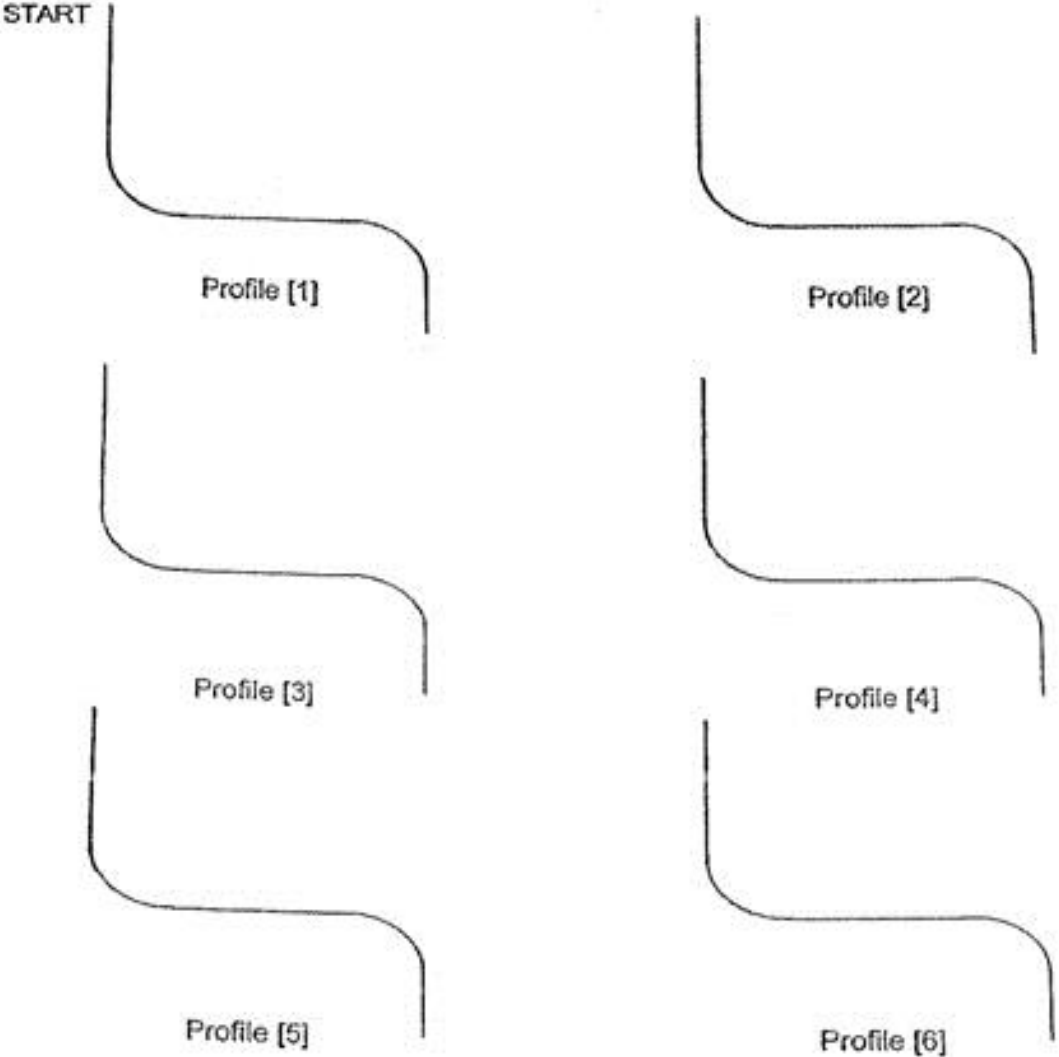
ST 3	Squares	3 of 10
<p>START</p>		
<p>INSTRUCTIONS: Position knife on "START". Cut along the line from point 1 to 2. Stop. Cut from point 2 to point 3. Stop. Repeat from point 4 all the way to point 20.</p> <p>Note: Trainee should try to cut in one continuous movement. Instructor clocks time.</p>		

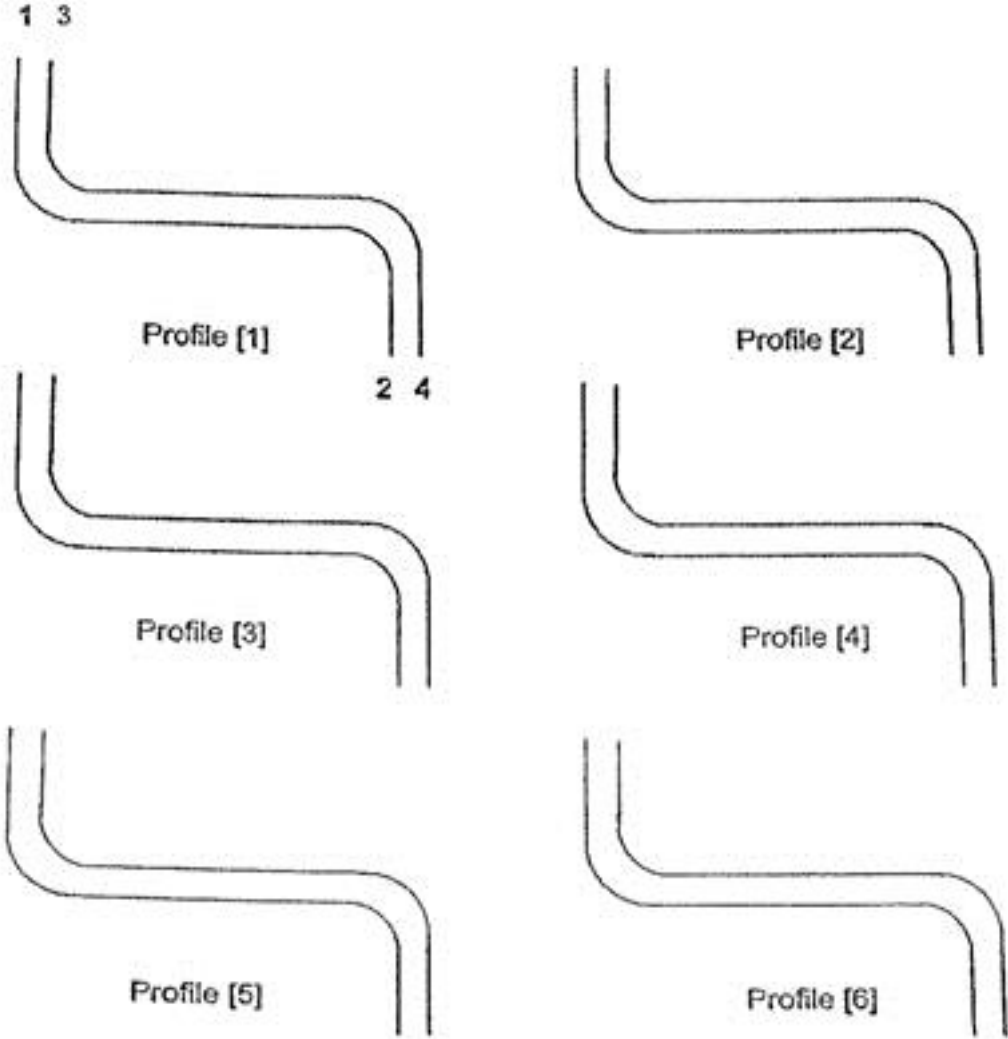
ST 4	Multi-Curve Test	4 of 10
<p>INSTRUCTIONS: Position knife on "START". Cut along the line from point 1 to STOP at point 2.</p> <p>Note: The trainee should try to cut in one continuous movement. Instructor clocks time.</p>		

ST 5	Cutting Semi-Circles	5 of 10
		
<p>INSTRUCTIONS: Position knife on point 1. Cut in one continuous movement to point 2. Continue the same exercise from 3 to 4, from 5 to 6 etc.</p> <p>Note: The trainee should try to cut in one continuous movement. Trainer clocks time.</p>		

ST 6	Circle Test	6 of 10
<p>INSTRUCTIONS: Place knife on point 1. Cut in a circle (continuous movement!) towards point 2. Restart at point 3, cut to point 4. Reposition knife at point 5. Cut to point 6 etc.</p> <p>Note The trainee should try to cut in two movements (two demi-circles). Instructor clocks time.</p>		

ST 7	Semi-Circles	7 of 10
		
<p>INSTRUCTIONS: Position knife on point 1. Cut to point 2 in continuous movement, then to point 3, then to point 4, and finally back to point 1 without turning the page.</p> <p>Note: This exercise has to be completed with acceptable quality before the trainee can proceed to the next exercise. The instructor should demonstrate how to execute the exercise and should explain the quality requirements.</p>		

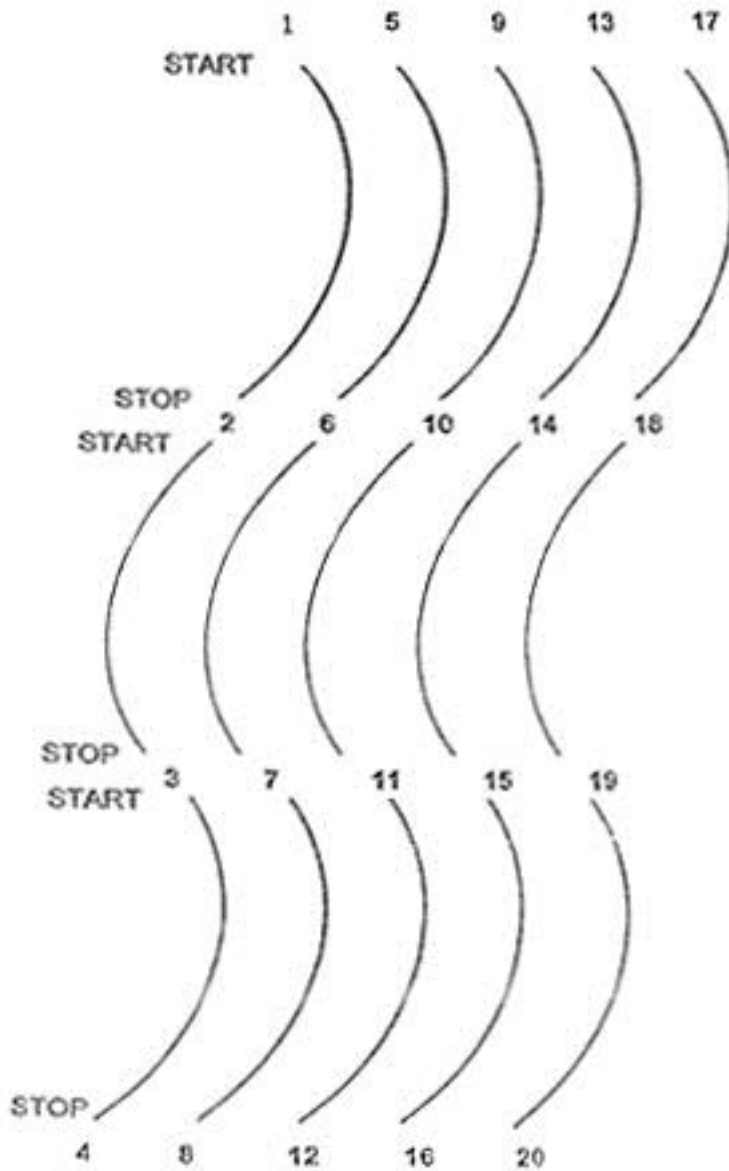
ST 8	Single Curves	8 of 10
 <p>The image displays six distinct cutting profiles, labeled Profile [1] through Profile [6], arranged in two columns and three rows. Each profile begins with a vertical line on the left labeled 'START' and ends with a vertical line on the right. The profiles are as follows:</p> <ul style="list-style-type: none">Profile [1]: A vertical line down, followed by a curve to the right, a horizontal segment, and a final curve down to the right.Profile [2]: A vertical line down, followed by a curve to the right, a horizontal segment, and a final curve down to the right.Profile [3]: A vertical line down, followed by a curve to the right, a horizontal segment, and a final curve down to the right.Profile [4]: A vertical line down, followed by a curve to the right, a horizontal segment, and a final curve down to the right.Profile [5]: A vertical line down, followed by a curve to the right, a horizontal segment, and a final curve down to the right.Profile [6]: A vertical line down, followed by a curve to the right, a horizontal segment, and a final curve down to the right.		
<p>INSTRUCTIONS: Position knife on point 1. Cut in continuous movement to point 2. Repeat for all profiles.</p> <p>Note: The exercise has completed with an acceptable quality. The instructor should demonstrate the exercise and explain the quality requirements.</p>		

ST 9	Double Curves	9 of 10
		
<p>INSTRUCTIONS:</p> <ul style="list-style-type: none"> Position knife on point 1. Follow the curve in one continuous movement to point 2. Start again at point 3. Follow the line in one continuous movement to point 4. Cut all 6 profiles this way. <p>Note: This exercise must be completed meeting a certain quality standard. The instructor should demonstrate how to execute the exercise and explain the quality requirements.</p>		

ST 10

Triple curves

10 of 10

**INSTRUCTIONS:**

Position knife on point 1.

Cut to point 2 in one movement and stop.

Restart after point 2 and cut to point 3.

Restart after point 3 and cut to point 4.

Complete the exercise to point 20.

Note: This exercise has to be completed meeting an acceptable quality level. the instructor should demonstrate the exercise and explain the quality requirements.



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