

**Task-based Activity Cover Sheet**

**Task Title:** Carpentry Angles and Tools

<b>Learner Name:</b>	
<b>Date Started:</b>	<b>Date Completed:</b>
<b>Successful Completion:</b> Yes___ No___	
<b>Goal Path:</b> Employment✓ Apprenticeship✓ Secondary School___ Post Secondary ___ Independence___	
<b>Task Description:</b> Understand angles and research tool options for angle finders.	
<b>Competency:</b> A: Find and Use Information B: Communicate Ideas and Information C: Understand and Use Numbers D: Digital Technology	<b>Task Group(s):</b> A2: Interpret documents A3: Extract information from films, broadcasts and presentations B2: Write continuous text C3: Use measures
<b>Level Indicators:</b> A2.2: Interpret simple documents to locate and connect information B2.3: Write longer texts to present information, ideas and opinions C3.3: Use measures to make multi-step calculations; use specialized measuring tools D.2: Perform well-defined, multi-step digital tasks	
<b>Performance Descriptors:</b> see chart on last page	
<b>Materials Required:</b> <ul style="list-style-type: none"> <li>• Computer with Internet access and printer</li> <li>• Access to Email</li> <li>• Pen and paper</li> </ul>	

**Task Title:** Carpentry Angles and Tools

Carpenters need to purchase tools to make the work effective and efficient. They often do research on the best tool for the job.

**Learner Information and Tasks:**

- Task 1:** Using the YouTube website search "**crown molding angle finder**". Locate and watch the YouTube video "**How to cut large angle crown molding corners by creative crown.**" What is the formula for cutting an angle larger than  $90^\circ$  with a miter saw?
- Task 2:** Search YouTube for the video "Understanding Miters" by This is Carpentry. Watch the video and list the two most important things to remember about miter cuts?
- 1)
  - 2)
- Task 3:** Carpenters use reference material on the job site. Search the internet for the **Creative Crown** website. On the website find and click on the cutting chart. If the angle is  $121^\circ$  what is the degree of the miter cut?
- Task 4** Go to the YouTube website and conduct a search of digital angle finders. Watch at least two YouTube videos on digital angle finders. Cite the videos you watched.
- Task 5** Using the videos you watched in Task 4, list the items that angle finders are used to measure?
- Task 6** Send an email to your instructor expressing your opinion of the advantages of using a digital angle finder rather than a traditional angle finder.

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**Answer Key**

**Task 1** Go to the YouTube website and search "**crown molding angle finder**". Locate and watch the YouTube video "**How to cut large angle crown molding corners by creative crown.**" What is the formula for cutting an angle larger than  $90^\circ$  with a miter saw?

$180^\circ - \text{degree of angle to be cut or } x^\circ = y^\circ$

$y^\circ \div 2 = \text{degree of angles to be cut or } c^\circ$

$(180^\circ - x^\circ) = y^\circ$

$y^\circ \div 2 = c^\circ$

**Task 2:** Search YouTube for the video "Understanding Miters" by [This is Carpentry](#). Watch the video and list the two most important things to remember about miter cuts?

1) **Inside corner measure to the longpoint of the molding**

2) **Outside corner measure to the shortpoint of the molding**

**Task 3:** Carpenters use reference material on the job site. Search the internet for the Creative Crown website. On the website find and click on the cutting chart. If the angle is  $121^\circ$  what is the degree of the miter cut?

$29.5^\circ$

**Task 4** Go to the YouTube website and conduct a search of digital angle finders. Watch at least two YouTube videos on digital angle finders. List the source of the videos you watched.

**Bosch GAM220MF Digital Angle Finder**

**Digital Angle Gauge #95998**

**Task 5** Using the videos you watched in Task 4, list the items that angle finders are used to measure?

**Angles for crown molding, baseboards, picture frame construction.**

**Task 6** Send an email to the instructor expressing your opinion of the advantages of using a digital angle finder rather than a traditional angle finder.

**The answer should be similar to the one below.**

**The advantage of using a digital angle finder is the ease of use. It can store the measurement. It's easily adjustable. With the traditional angle finder you will have to remember the number of the angle and may cause inaccuracies in measurements.**

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Performance Descriptors		Needs Work	Completes task with support from practitioner	Completes task independently
A2.2	<ul style="list-style-type: none"> <li>performs limited searches using one or two search criteria</li> </ul>			
	<ul style="list-style-type: none"> <li>extracts information from tables and forms</li> </ul>			
	<ul style="list-style-type: none"> <li>uses layout to locate information</li> </ul>			
	<ul style="list-style-type: none"> <li>makes connections between parts of documents</li> </ul>			
	<ul style="list-style-type: none"> <li>makes low-level inferences</li> </ul>			
	<ul style="list-style-type: none"> <li>begins to identify sources and evaluate information</li> </ul>			
A3	<ul style="list-style-type: none"> <li>the tasks in this task group are not rated for complexity</li> </ul>			
B2.3	<ul style="list-style-type: none"> <li>writes texts to present information, summarize, express opinions, present arguments, convey ideas or persuade</li> </ul>			
	<ul style="list-style-type: none"> <li>manages unfamiliar elements (e.g. vocabulary, context, topic) to complete tasks</li> </ul>			
	<ul style="list-style-type: none"> <li>selects and uses vocabulary, tone and structure appropriate to the task</li> </ul>			
	<ul style="list-style-type: none"> <li>organizes and sequences writing to communicate effectively</li> </ul>			
	<ul style="list-style-type: none"> <li>uses a variety of vocabulary, structures and approaches to convey main ideas with supporting details</li> </ul>			
C3.3	<ul style="list-style-type: none"> <li>understands and uses properties of angles and triangles to solve problems</li> </ul>			
D.2	<ul style="list-style-type: none"> <li>selects and follow appropriate steps to complete tasks</li> </ul>			
	<ul style="list-style-type: none"> <li>locates and recognizes functions and commands</li> </ul>			
	<ul style="list-style-type: none"> <li>makes low level inferences to interpret icons and text</li> </ul>			

	<ul style="list-style-type: none"><li>performs simple searches using keywords (e.g. internet, software help menu)</li></ul>			
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**This task:** was successfully completed\_\_\_ needs to be tried again\_\_\_

<b>Learner Comments</b>

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**Instructor (print)**

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**Learner Signature**