

OALCF Tasks for the Apprenticeship Goal Path: Prepared for the Project, *Developing Best Practices for Increasing, Supporting and Retaining Apprentices in Northern Ontario (2014)*

OALCF Task Cover Sheet

Task Title: Reading Blueprint Notes

Learner Name:	
Date Started:	
Date Completed:	
Successful Completion: Yes ___ No ___	
Goal Path: Employment <input checked="" type="checkbox"/> Apprenticeship <input checked="" type="checkbox"/> Secondary School ___ Post Secondary ___ Independence ___	
Task Description: Carpenters read blueprint notes to find information about products, installation, processes, and other details to meet codes and engineering specifications. These notes may be unique to a structure, local practice, or manufacturer.	
Competency: A: Find and Use Information B: Communicate Ideas and Information C: Understand and Use Numbers	Task Group(s): A1: Read continuous text A2: Interpret documents B2: Write continuous text C3: Use measures
Level Indicators: A1.1: Read brief texts to locate specific details A1.2: Read texts to locate and connect ideas A2.2: Interpret simple documents to locate and connect information A2.3: Interpret somewhat complex documents to connect, evaluate and integrate information B2.1: Write brief texts to convey simple ideas and factual information B2.2: Write texts to explain and describe ideas and information C3.1: Measure and make simple comparisons and calculations	
Performance Descriptors: see chart on last page	
Materials Required: <ul style="list-style-type: none"> • Pencil • Blueprint Notes document 	

Task Title: Reading Blueprint Notes

Carpenters read blueprint notes to find information about products, installation, processes and other details to meet codes and engineering specifications.

Look at the Blueprint Notes document.

Learner Information and Tasks:

Task 1: Circle, underline, or highlight which sections of the Ontario Building Code (O.B.C.) refer to concrete's air entrainment percentages?

Task 2: Under what conditions are double joists required?

Task 3: One note refers to installing factory built fireplaces. The O.B.C. is one document that addresses the installation. List the two other documents that inform the particulars about the installation.

Task 4: Under what conditions must the carpenter use reinforcement bars?

Task 5: Do all garage walls have to be gas sealed? Explain your answer.

Task 6: Which structure, a garage slab or a foundation wall, requires a higher MPa value? Calculate the difference between the MPa values.

Blueprint Notes

Double Joists:

All non-load bearing partitions running parallel to the span of the floor joists are to be supported on double joists, or on min. 2" x 4 blocking @ max. 3'-11" centres between the joists.

O.B.C.

4.2.4.1 (1) (b)
- Design conforms to established local practice.

Fireplaces:

Direct vent factory built fireplaces to be installed as per O.B.C., manufacturers specifications and CAN/CGA B149 "Installation Codes for Gas Burning Appliances and Equipment".

Garage Gas Sealing:

Garage walls and ceiling to be drywalled and gas sealed adjacent to dwelling.

Door between garage and house to be tight fitting and weatherstripped, and shall be fitted with a self closing device.

Concrete used for garage slab and exterior work including steps and porch slab is 32MPa with 5%-8% air entrainment. (O.B.C. 9.3.1.6 & 9.3.1.7)

O.B.C. Foundation Design:

9.4.4.1 (2) and 9.15.1.1 (3) - Foundations on filled ground to conform to Section 4.2

Backfill:

Min. 4'0" from underside of the footing to grade where on undisturbed soil.

Max. 7'7" backfill to 10" 20MPa poured concrete.

Where backfill to foundation wall exceeds heights shown, foundation wall to incorporate reinforcement bars in accordance with Structural Engineers details.

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Answer Key – one way to get these answers are:

Task 1: Scan notes to find O.B.C. Scan those notes to find “air entrainment”. Circle, underline, or highlight the sections of the O.B.C .

9.3.1.6 & 9.3.1.7

Task 2: Scan notes to find “double joists”. Record the conditions.

Double joists are required for all non-load bearing partitions running parallel to the span of the floor joists.

Task 3: Scan notes to find information about fireplaces. Scan the note to find “O.B.C.”. Record the other two documents.

The other two documents to be used to install factory built fireplaces are manufacturers specifications and CAN/CGA B149 “Installation Codes for Gas Burning Appliances and Equipment”.

Task 4: Scan notes to find “Structural Engineers”. Scan the note to locate “reinforcement bars”. Locate the conditions when reinforcement bars must be used. Find the maximum height of backfill referred to earlier in the note.

When the backfill exceeds the height shown (7’7”), reinforcement bars must be used.

Task 5: Scan notes to find information about the garage. Locate information about walls and gas sealing. Infer that not all walls are adjacent to the dwelling. Record answer.

No. Only the walls that are adjacent to the dwelling must be gas sealed.

Task 6: Scan the notes for “concrete”. Scan these notes for “garage slab” and “foundation wall”. Locate the term “MPa” in each note as it refers to “garage slab” and “foundation wall”. Record the MPa for the garage wall and the MPa for the foundation wall. Realize that subtraction will be used to derive the difference between the garage wall MPa and the foundation wall MPa. Record the answer (difference). Record the answer.

The garage slab has the higher MPa value. $32 - 20 = 12$ MPa

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Performance Descriptors		Needs Work	Completes task with support from practitioner	Completes task independently
A1.1	<ul style="list-style-type: none"> reads short texts to locate a single piece of information 			
	<ul style="list-style-type: none"> follow simple, straightforward instructional texts 			
A1.2	<ul style="list-style-type: none"> scans text to locate information 			
	<ul style="list-style-type: none"> locates multiple pieces of information in simple texts 			
	<ul style="list-style-type: none"> makes low-level inference 			
A2.2	<ul style="list-style-type: none"> performs limited searches using one or two search criteria 			
	<ul style="list-style-type: none"> uses layout to locate information 			
	<ul style="list-style-type: none"> makes connections between parts of documents 			
	<ul style="list-style-type: none"> makes low-level inferences 			
	<ul style="list-style-type: none"> begins to identify sources and evaluate information 			
A2.3	<ul style="list-style-type: none"> performs complex searches using multiple search criteria 			
	<ul style="list-style-type: none"> manages unfamiliar elements (e.g. vocabulary, context, topic) to complete tasks 			
	<ul style="list-style-type: none"> integrates several pieces of information from documents 			
	<ul style="list-style-type: none"> compares or contrasts information between two or more documents 			
	<ul style="list-style-type: none"> uses layout to locate information 			
	<ul style="list-style-type: none"> identifies the purpose and relevance of documents 			
	<ul style="list-style-type: none"> makes inferences and draws conclusions from information displays 			
	<ul style="list-style-type: none"> identifies sources, evaluates and integrates information 			
B2.1	<ul style="list-style-type: none"> writes simple texts to request, remind or inform 			
	<ul style="list-style-type: none"> conveys simple ideas and factual information 			
	<ul style="list-style-type: none"> demonstrates a limited understanding of sequence 			

	<ul style="list-style-type: none"> uses sentence structure, upper and lower case and basic punctuation 			
	<ul style="list-style-type: none"> uses highly familiar vocabulary 			
B2.2	<ul style="list-style-type: none"> writes texts to explain and describe 			
	<ul style="list-style-type: none"> conveys intended meaning on familiar topics for a limited range of purposes and audiences 			
	<ul style="list-style-type: none"> begins to sequence writing with some attention to organizing principles (e.g. time, importance) 			
	<ul style="list-style-type: none"> uses limited range of vocabulary and punctuation appropriate to the task 			
	<ul style="list-style-type: none"> begins to select words and tone appropriate to the task 			
	<ul style="list-style-type: none"> begins to organize writing to communicate effectively 			
C3.1	<ul style="list-style-type: none"> adds and subtracts whole number measurements 			
	<ul style="list-style-type: none"> recognizes values in number and word format 			
	<ul style="list-style-type: none"> begins to interpret integers (e.g. temperature, elevation) 			
	<ul style="list-style-type: none"> chooses appropriate units (e.g. metres, inches) and non-standard units (e.g. paces, cupfuls, scoops) 			
	<ul style="list-style-type: none"> identifies and performs required operation 			
	<ul style="list-style-type: none"> interprets and represents measures using symbols and abbreviations (e.g. inches as “, centimeters as cm, pounds as lbs, kilograms as kilos or kg) 			
	<ul style="list-style-type: none"> follows apparent steps to reach solutions 			

This task: was successfully completed ___ needs to be tried again ___

Learner Comments

Instructor (print)

Learner Signature