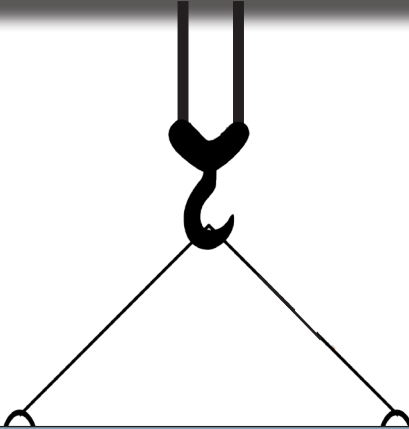
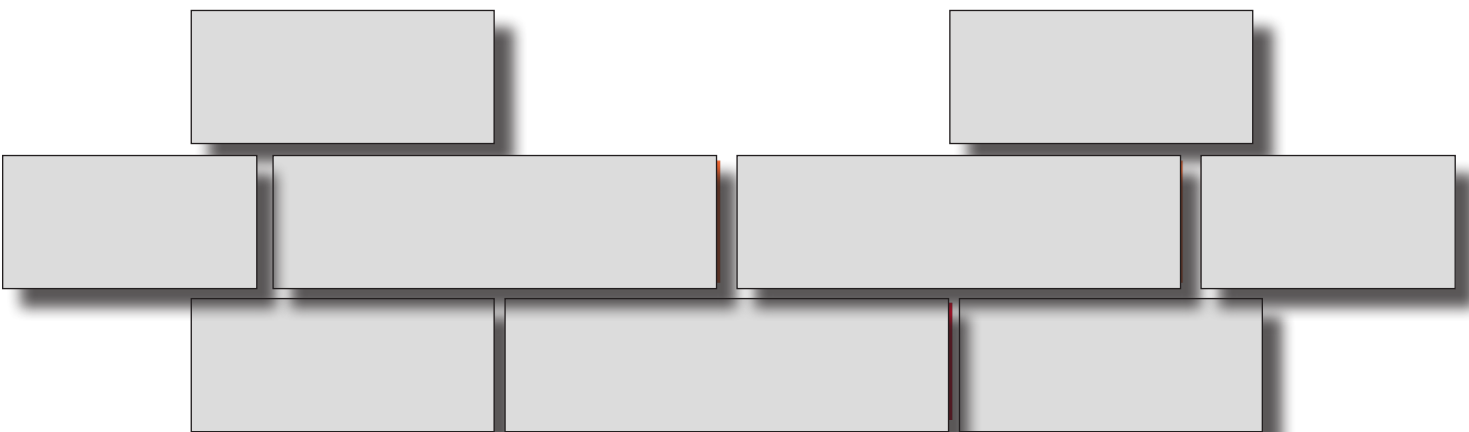


Success In Apprenticeship



Locator Answer Key & Marking Sheet



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The Locator was developed as part of the Success in Apprenticeship project.
The Locator is not permitted for formal high stakes testing purposes.



This project is funded in part by the Government of Canada's Adult Learning, Literacy and Essential Skills Program.



SUCCESS IN APPRENTICESHIP LOCATOR

The **Success In Apprenticeship Locator** is designed to identify important skills we use for working, learning and living. These include reading, using forms and documents, and solving problems involving numbers. Research has demonstrated the importance of these skills in supporting apprenticeship technical training success.

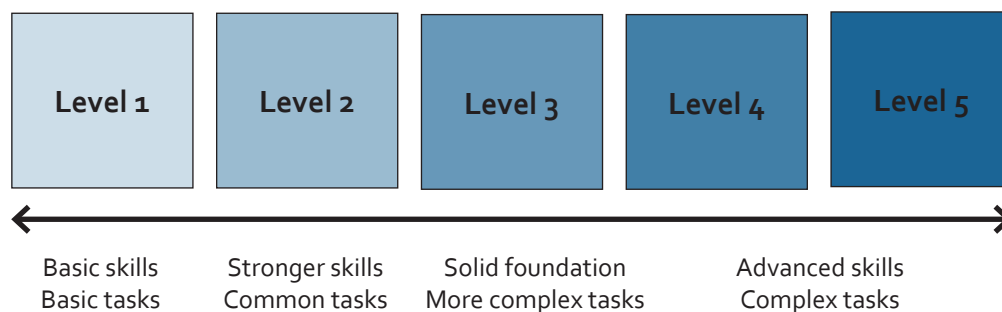
The Locator is an informal evaluation tool, designed to provide users with feedback about their skills. Completing the Locator will identify strengths and areas that may require practice. Results can be used to make decisions about learning needs.

The skills evaluated by the Locator include:

Reading	Solving problems and completing tasks using written materials such as notes, letters, emails, reports, brochures, regulations, manuals, books and news articles.
Using Documents	Solving problems and completing tasks using visual information such as graphs, lists, tables, signs, symbols, maps, pictures, schematics, and labels.
Numeracy	Solving problems and completing numerical tasks such as scheduling and budgeting, measuring and estimating, analyzing data, and working with money.

These skills are measured on a scale from Level 1 to Level 5.

Level 1 represents basic skills and basic tasks, where Level 4 and 5 represent advanced skills and complex tasks. Most Canadian occupations require skills at Level 3 and higher.



The Locator is designed to provide a general estimation of ability at Levels 2 and 3.

Results are only a general estimation of ability.

The Locator is not permitted for formal, high stakes testing purposes.

OVERVIEW

The **Success In Apprenticeship Locator Answer Key & Marking Sheet** is used by instructors to mark responses and generate informal results to estimate skill levels.

This guide consists of:

1. An answer key, with responses displayed as they would appear within the Locator.
2. A condensed answer key, listing only responses, for quick and easy reference.
3. A marking sheet for marking each response, tallying scores and generating results.

UNDERSTANDING THE ANSWER KEY

- All question responses are in bold.
- Additional response information and instructions for marking are in brackets and italicized.
- Responses must match exactly. Some responses may allow for variations and are noted as such.
- There are no half marks.
- Minor spelling errors and incomplete sentences are acceptable if the response is clearly understood.
- If you are unsure as to whether an answer is correct:
 - Review the marking instructions in the answer key
 - Try the question yourself
 - Look for details in the question and document that might help to interpret the response
 - Ensure that additional information in the response is not contradictory. A response with too many additional details makes it difficult to confirm understanding
 - At the workplace/job site, would the response satisfy the requirements of the task?
 - Ask a colleague for their opinion

MARKING INSTRUCTIONS

1. Use one Marking Sheet per completed Locator
2. Evaluate and compare the Locator responses with the Answer Key.
3. Mark each response as correct (= 1) or incorrect (= 0) on the Marking Sheet in the corresponding question box. Blank responses are scored as incorrect (=0).

Questions		Reading		Using Documents		Numeracy	
		L2	L3+	L2	L3+	L2	L3+
Excavated Materials	1	1					
	2					1	
Maintenance	3				0		
	4				1		

4. Tally the marks for each column at the bottom of the page. If marking online, the total will automatically populate.

TOTALS	4	3	3	3	5	4
---------------	---	---	---	---	---	---

5. Transfer the totals to the Locator Results page. If marking online, these totals will automatically populate.

Calculate the percentage correct. If marking online, these totals will populate and calculate automatically.

	Reading		Using Documents		Numeracy	
	L2	L3+	L2	L3+	L2	L3+
TOTALS = X out of 5	4	3	3	3	5	4
% Correct	80%	60%	60%	60%	100%	80%

6. Compare percentage correct, for each domain, against the Scoring Matrix to receive an estimated proficiency. The Locator Results page can be printed off or saved and sent electronically.

SCORING MATRIX		
5 / 5	100%	Estimated as strong proficiency within the level and skill area
4 / 5	80%	
3 / 5	60%	Estimated as developing proficiency within the level and skill area
2 / 5	40%	Estimated as weaker proficiency within the level and skill area
1 / 5	20%	
0 / 5	0%	Estimated as minimal proficiency within the level and skill area

EXCAVATED MATERIALS

QUESTIONS

1. What are two dangers of leaving excavated materials too close to the edge of the excavated site?

**Injury OR (material) falls into excavation
AND
structural stability (of the walls of excavation)**

2. At one site, the height of the excavation is 7 feet. Ideally, how many metres from the edge should the excavated material be piled?

2.33 metres
[Accept 2.13. To calculate: $7/3$ or $7/3.28$]

MAINTENANCE CHECKLIST

3. The forklift blades do not meet standards. Mark this on the checklist.

	OK	MAINTENANCE REQUIRED
Is the forklift's appearance in good condition and clean?	<input type="checkbox"/>	<input type="checkbox"/>
Is the manufacturer's capacity plate clean and readable?	<input type="checkbox"/>	<input type="checkbox"/>
Check lift chains for equal tension, broken pins and extra wear.	<input type="checkbox"/>	<input type="checkbox"/>
Check the forks for damage.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

4. Highlight what is inspected after verifying fluid levels.

Check the **fluid levels** for the brake fluid, engine oil, hydraulic tank and coolant.

Start the engine and check the **dashboard gauges** for proper readings.

Make sure there is no movement from when the steering wheel

5. The forklift operating hours are recorded on the checklist. How many more hours are permitted before additional maintenance is required?

320 hours

6. The first 7 items can be completed in a 2-5 minute walk around the forklift. The remaining items should take no more than 1 minute each. If a forklift needs to be operational by 8:30 a.m., what is the latest time the maintenance inspection can begin?

8:14 am

[To calculate: 5 mins for first 7 + 11 x 1 min = 16 minutes, subtract this from 8:30 a.m.]

INSTALLATION SCHEMATIC

7. According to the instructions, what is a possible consequence of not using the recommended measurements?

(May lead to issues such as) water discharge from the showerhead during tub fill mode.
[Accept answer variations indicating water leaking from the showerhead while filling the tub]

8. What part is recommended for installation but is not supplied?

Flanged Elbow Fitting

9. The distance between the valve and the spout is 7.5 inches. What is the distance in millimetres?

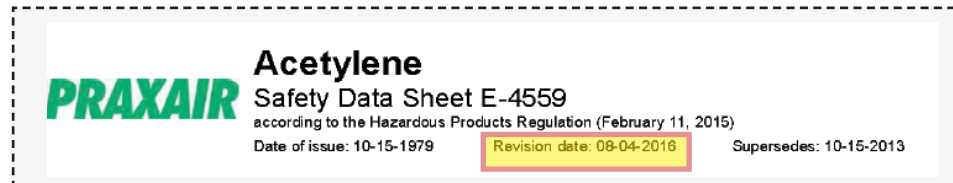
190 mm
*[Accept 190 to 190.5.
To calculate: Given 152 mm in 6 inches; $152 \text{ mm}/6 = 25.3 \text{ mm in an inch}$, $25.3 \text{ mm} \times 7.5 = 190 \text{ mm}$]*

10. What range of additional distance is needed between the shower arm and the valve in a Tub/Shower installation compared to the Shower Only installation?

13 - 16 inches
[Accept decimals as well. Accept one measurement or range, within 13 - 16. To calculate: Find the differences between 45 and 32, and, 48 and 32; $45 - 32 = 13 \text{ inches}$, and $48 - 32 = 16 \text{ inches}$]

ACETYLENE SDS

11. When was the SDS last updated to meet current regulations? Highlight your answer.



PRAXAIR **Acetylene**
Safety Data Sheet E-4559
according to the Hazardous Products Regulation (February 11, 2015)
Date of issue: 10-15-1979 **Revision date: 08-04-2016** Supersedes: 10-15-2013

12. When welding, what protective equipment can prevent dizziness and nausea?

(Respirable Fume AND/OR Air Supplied) Respirator

PROJECT SCHEDULE

13. Based on the schedule for the current week of March 26, Crew B is delayed on the Brown Addition. Assuming there are no more delays, what week will the Brown Addition now be completed?

May 14

[The crew is 3 weeks behind schedule;

To calculate: Add 3 weeks to the current schedule.

Crew 3 would finish on May 7, making them available May 14]

14. If Crew C needs to complete all project phases no later than the end of May, how many weeks of overtime may have to be added during the project production phase?

One / 1 weeks

15. Tracking progress is an important part of project management. What is the completion percentage for all the KR Construction projects? Enter the value on the schedule.

KR Construction Schedule	% COMPLETE	JAN					FEB					
		1	8	15	22	29	5	12	19	26	5	
01-123 Norris Remodel (Crew A)	33%											
Pre-construction	100											
Production	88											
Close-out	0											

[To calculate: Norris remodel: 10 of 12 weeks completed, $10/12 = 83\%$ AND

Completion % = Average of 83, 42, 8, and 0 = 33%]

ELECTRICAL LINE STANDARDS

16. Under which section number will you find information on non-conductive rope?

(Section) 3 OR 3.3

17. Using information from the *Standards* document, fill in the blank areas of the features table.

ROPE FEATURES TABLE			
Rope Type	Colour	Voltage	Rope Testing Interval
Live Line	Green	230 kV	Yearly
Bare Hand	Orange	Non-energized	Yearly
Live Line	White	60 kV	None

ELECTRICAL PLAN

18. What is the spacing required between the light fixtures located directly above the double sinks?

26 inches (on-center/OC)

[Accept on-center as additional information; Spacing is measured for the three light fixtures on left hand side of double dashed lines]

19. To the nearest whole number, what is the square footage inside the bathroom?

108 ft²

[To calculate: $(84 \text{ in}/12) \times (163.5 \text{ in}/12) = 7 \text{ ft} \times 13.625 \text{ ft} = 95.375 \text{ ft}^2$

$(67.5 \text{ in}/12) \times (27 \text{ in}/12) = 5.625 \text{ ft} \times 2.25 \text{ ft} = 12.656 \text{ ft}^2$

[Note: to get 27 in, subtract 84 in from 111 in]

$95.375 \text{ ft}^2 + 12.656 \text{ ft}^2 = 108 \text{ ft}^2$ (rounded)]

OR

To calculate: $(111 \text{ in}/12) \times (67.5 \text{ in}/12) = 52.031 \text{ ft}^2$

Then add the width of the wall by adding $91.5 \text{ in} + 67.5 \text{ in} = 159 \text{ in}$

$163.5 \text{ in} - 159 \text{ in} = 4.5 \text{ in}$. Add 4.5 in to 91.5 = 96 in

$(96 \text{ in}/12) \times (84 \text{ in}/12) = 8 \text{ ft} \times 7 \text{ ft} = 56 \text{ ft}^2$

$52.031 \text{ ft}^2 + 56 \text{ ft}^2 = 108 \text{ ft}^2$ (rounded)]

FRAMING NAILER OPERATION

20. Which figure explains how to adjust the drive depth of the framing nailer?

Three / 3

21. Identify the parts labelled in Figure 3.

A **depth adjustment plate**

B **cap screw**

C **(plastic) protective tip**

22. Highlight the recommended air pressure.

The amount of air pressure required will vary. **determine the lowest setting that will constantly perform the job at hand.** Air pressure exceeding that which is required can cause premature wear and/or damage the nailer. A plastic protective tip (C) is provided to reduce marring of the work surface. It can be removed to increase depth of drive. **Warning!** Disconnect the air hose from the nailer air inlet before removing plastic protective tip.

23. What operational mode is used for less precise nail placement?

Bump fire (mode)

24. Before clearing jams, what is the most important safety step??

Disconnect the air hose (from the nailer air inlet)

PLUMBING TROUBLESHOOTING

25. Why should non-abrasive wax be applied to the fixtures?

(To) preserve finish (of the metallic parts)
*[Do not accept additional parts of the sentence.
Acceptable answer variations must indicate
preservation of the finish]*

26. Water that comes out of the showerhead while filling the tub is referred to as what problem?

(Water) stacking (of water)

27. Highlight the recommended solution for fixing a restriction between the valve and spout.

Remove tub spout and flush out debris – Replace undersized line or fittings

28. According to the guide, what are two causes for a temperature range problem?

1. **Handle installed upside down**

2. **Temperature limit stop out of position**

LOCATOR ANSWER KEY OVERVIEW

Excavated Materials	
1	Injury OR (material) falls into excavation AND structural stability (of the walls of excavation) [Must have both to receive mark]
2	2.33 [Accept 2.13; To calculate: 7/3 or 7/3.28]
Maintenance Checklist	
3	Check “ Maintenance Required ” box for “ Check the forks for damage ”
4	On the checklist ‘ Start the engine and check the dashboard gauges for proper readings ’ is highlighted
5	320 (hours)
6	8:14 a.m. [To calculate: 5 mins for first 7 + 11 x 1 min = 16 minutes, subtract this from 8:30a.m.]
Installation Schematic	
7	(May lead to issues such as) water discharge from the showerhead during tub fill mode . [Accept answer variations indicating water leaking from the showerhead while filling the tub]
8	Flanged Elbow Fitting [Do not accept anything else]
9	190 (mm) [Accept 190 to 190.5; To calculate: Given 152mm in 6 inches, 152 mm/6 = 25.3 mm in an inch 25.3 mm x 7.5 = 190 mm]
10	13 - 16 (inches) [Accept decimals as well. Accept one measurement or range, within 13 - 16; To calculate: Find the differences between 45 and 32, and, 48 and 32, 45 - 32= 13 inches and 48 - 32 = 16 inches]
Acetylene SDS	
11	(Revision date:) ‘ 08-04-2016 ’ is highlighted
12	(Respirable Fume AND OR Air Supplied) Respirator
Project Schedule	
13	May 14 [The crew is 3 weeks behind schedule add this to the current schedule they would finish on May 7, so they would be available on May 14]
14	1 week
15	Completion = 33% (To calculate: Norris remodel: 10 of 12 weeks completed, 10/12 = 83% AND completion % = Average of 83, 42, 8, and 0 = 33%)

LOCATOR ANSWER KEY OVERVIEW

Electrical Line Standards	
16	(Section) 3 [Accept 3.3]
17	Row 1: Rope Type: LIVE LINE Colour: GREEN Row 2: Rope Type: BARE HAND Testing Interval: YEARLY [Accept annual OR once a year] Row 3: Colour: WHITE (with colour tracers) Voltage: 60kV [Must have all 6 features to receive mark]
Electrical Plan	
18	26 inches (on-center (OC)) [Accept on-center as additional information; Spacing is only measured for the three light fixtures on left hand side of double dashed lines.]
19	108 ft ² [To calculate: (84 in/12) x (163.5 in/12) = 7 ft x 13.625 ft = 95.375 ft ² (67.5 in/12) x (27 in/12) = 5.625 ft x 2.25 ft = 12.656 ft ² [Note: to get 27 in, subtract 84 in from 111 in] 95.375 ft ² + 12.656 ft ² = 108 ft ² (rounded)] OR To calculate: (111 in/12) x (67.5 in/12) = 52.031 ft ² Then add the width of the wall by adding 91.5 in + 67.5 in = 159 in 163.5 in - 159 in = 4.5 in. Add 4.5 in to 91.5 = 96 in (96 in/12) x (84 in/12) = 8 ft x 7 ft = 56 ft ² 52.031 ft ² + 56 ft ² = 108 ft ² (rounded)]
Framing Nailer Operation	
20	(Figure) 3
21	A: depth adjustment plate
22	B: cap screw
23	C: (plastic) protective tip
24	(the amount of air pressure required will vary, determine the) ' lowest setting that will consistently perform the job at hand ' is highlighted
25	Bump fire (mode)
26	disconnect the air hose (from the nailer air inlet)
Plumbing Troubleshooting	
27	(To) preserve finish (of the metallic parts) [Do not accept additional parts of the sentence. Acceptable answers variations must indicate preservation of the finish]
28	(Water) Stacking (of Water)
29	' Remove tub spout and flush debris. Replace undersized line or fittings ' is highlighted
30	Accept in any order. Handle installed upside down AND Temperature Limit Stop out of position [Acceptable variations include Handle upside down and Temperature Limit Stop positioning. Must indicate the cause of the problem referenced in the table, do not accept just the name of the part, for example just Handle or just Temperature Limit Stop; Both causes to receive mark].

LOCATOR MARKING SHEET

Mark Correct with 1
 Mark Incorrect with 0
 Mark No Response with o

Questions		Reading		Using Documents		Numeracy	
		L2	L3+	L2	L3+	L2	L3+
Excavated Materials	1						
	2						
Maintenance Checklist	3						
	4						
	5						
	6						
Installation Schematic	7						
	8						
	9						
	10						
Acetylene SDS	11						
	12						
Project Schedule	13						
	14						
	15						
Electrical Line Standards	16						
	17						
Electrical Plan	18						
	19						
Framing Nailer Operation	20						
	21						
	22						
	23						
	24						
	25						
	26						
Plumbing Troubleshooting	27						
	28						
	29						
	30						
TOTALS							

LOCATOR RESULTS

Name _____

Instructor _____

Date _____

	Reading		Using Documents		Numeracy	
	L2	L3+	L2	L3+	L2	L3+
TOTALS = X out of 5						
% Correct						

SCORING MATRIX		
5 / 5	100%	Estimated as strong proficiency within the level and skill area
4 / 5	80%	
3 / 5	60%	Estimated as developing proficiency within the level and skill area
2 / 5	40%	Estimated as weaker proficiency within the level and skill area
1 / 5	20%	
0 / 5	0%	Estimated as minimal proficiency within the level and skill area