

Learner Self-reflection 2 – 24351 (v3) Demonstrate knowledge of and use fixed machinery in the construction of BCATS projects

Student name:

- 1 This vertical drill press is not being used correctly. Identify **THREE** errors in how it is being used and their potential consequences.



Error 1

Potential consequence

Error 2

Potential consequence

Error 3

Potential consequence

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2 From the list of drill bits below, identify the most appropriate drill bit for each of the given tasks.

- Standard twist drill
- Brad bit
- Spade bit
- Forstner bit
- Combination auger bit
- Hole saw
- Countersink/counter-bore combination set

Task	Appropriate bit
1 Drill a 25 mm hole through 150mm thick timber.	
2 Drill a 10mm dowel hole.	
3 Drill two overlapping holes.	
4 Drill a 6mm hole through a steel bar.	
5 Prepare the pilot, clearance and countersink holes for 25 individual screws.	
6 Drill a 75mm hole through a fibreglass panel.	
7 Drill a 25mm hole through 50mm thick timber.	
8 Drill a 30mm hole through 10mm plywood.	

3 What is likely to happen to the work if you force the drill to cut straight through it in a single action?

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4 What are the advantages of using a drill press over a hand held electric drill?

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5 Why should large diameter drills, such as hole saws, be used at low speeds?

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6 What could happen if your hair got tangled in a moving drill bit?

7 What is likely to happen if you don't keep your hand out of line with the drill bit when drilling holes?