# Activity 2 – 24530 (v2) Identify, select, maintain, and use portable power tools for BCATS projects

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| **Student name:** |

1. What materials are the cheapest drill bits made of?

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What is the disadvantage of using this type of drill bit?

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1. What is the most common type of quality general-purpose drill bit?

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Describe the advantage of the centre-point drill bit for drilling in timber:

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1. What type of drill bit is needed to drill into concrete?

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1. What type of power drill do you need to drill through concrete?

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1. You need to drill a hole in a narrow, confined space. What type of power drill would you use?

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1. What are the possible consequences of trying to hold small objects in your hands when drilling?

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1. Identify 4 safety rules that should be observed when using a portable power drill:

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| (i) |
| (ii) |
| (iii) |
| (iv) |

1. When drilling a hole in a piece of metal using a large-sized bit, what is the possible injury to the operator if the drill jams?

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1. Identify **THREE** common actions that can cause a drill bit to break:

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| (i) |
| (ii) |
| (iii) |

1. To obtain a tidy finish, what can you do to avoid splintering the exit hole?

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1. You have been instructed to drill a 38mm hole through a piece of 10mm MDF. What type of drill and drill bit should you choose? Give reasons for your choice:

Type of bit:

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Reason:

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