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| **Woodworking 1A: Machinery & Methods**  |

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| **Learning Plan**   |

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| **Unit 4.1: Drills & Drivers** |

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| ***Overview***  |
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| Drilling and Boring are hole making processes as basic to cabinetmaking as sawing and surfacing. Holes are necessary for making joints, installing hardware, and producing various cabinet design features. This module focuses on portable drills and installing threaded fasteners.

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| **Task** | **Estimated Time** | **Actual Time** |
| Reading/Study | 1.5 hours |  |
| Observation & Practice | 1 hours |  |
| Test | .5 hours |  |

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| ***Learning Activities***

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✓ **Task** |  |
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* Read ***Modern Cabinetmaking*** ***(6th edition)*** pp. 491-506
* Review Information sheet: "Safety Rules for Portable Power Drills"
* Watch this video “Drills 101”: <https://youtu.be/wA5aFPBKIpY?t=28s> (Link also on BB)
* Review "Portable Drills & Drill Bits" on Blackboard
* Read ***Modern Cabinetmaking*** pp. 338-344 (starting with Section 20.2)
* Review "Screws, Drills & Drivers" on Blackboard
* Observe a demonstration by your instructor on portable drills and drivers and/or watch these 2 videos

[Part A: Portable Drills](https://madisoncollege.yuja.com/V/Video?v=1354886&a=245377310)   (22:21)[Part B: Fasteners & Drivers](https://madisoncollege.yuja.com/V/Video?v=1354956&a=655956614)  (12:21)* Practice identifying and installing tooling in portable drills
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| ***Assessment Activities***  |
| * Complete the written test online
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