Cut-Rate Machining Study Chapter 2 (105 points total) RUBRIC

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| Points | Requirement | Comments |
| 5  10  5 | Report Format (Word document)   1. Organization 2. Clarity 3. Use of Tables to present data |  |
| 10  5 | |  | | --- | | **Scatter Plot – Measured Width – All Vendors** |     Only the first 2 vendors have any 3-centimeter-diameter |  |
| 10  5 | **Scatter Plot – HM Measured Width**    Only 3 of 16 holes are cut to specification. The trend line indicates that the majority of the holes are greater than 3 centimeters. |  |
| 10  5 | **Scatter Plot – SS Measured Width**    Only 3 of 16 holes are cut to specification. The trend line indicates that the majority of the holes are smaller than 3 centimeters |  |
| 10  5 | **Scatter Plot – JJ Measured Width**    None of the holes are cut to the 3-centimeter designation. The trend line indicates a negative relationship between the hole width and centimeter width. There is no consistency in machining by this vendor. |  |
| 10  5 | **Scatter Plot – DB Measured Width**    None of the holes are cut to the 3-centimeter designation. The trend line indicates a positive relationship between the hole width and centimeter width. There is no consistency in machining by this vendor. Variability in centimeter width varies from less than 2 to greater than 4 centimeters. |  |
| 10 | **Sources of Error**  Machines were all warmed up at 8:00am for 2 hours.  Holes were cut in 2-hour time periods (10-noon, Noon-2, 2-4, and 4-6). The machines that were warmed up were then not used immediately.  The employee from 4 to 6 was not the same employee machining the hole for the first 3 time periods. |  |

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| 5  2  3 | Scatter Diagram – Page Viewed and Time Spent  More pages viewed is associated with more time spent viewing pages.  Correlation coefficient - .60 - moderate positive relationship |  |