

MANUFACTURING RESEARCH PAPER

(To be used in conjunction with the assessment developed for Standard 5A.J)

Performance Standard 5B.J

Each student will analyze the information gathered for the research paper from 5A.J and will select the information to include in the report, based on the criteria for determining accurate and appropriate evidence accordingly:

- *Analyzing sources*: analyze sources found and select for inclusion those that meet the requirements for accuracy, currency and reliability; defend the use of each source based on its application to the argument under development; find acceptable sources.
- *Developing works cited/bibliography*: format entries on the works cited/bibliography list; arrange entries in alphabetical order; include corresponding parenthetical notation(s) in the text of the report.
- *Recording parenthetical notation*: include correct information; insert properly into the text; punctuate properly.

Procedures

1. ***In order to analyze and evaluate information acquired from various sources (5B)***, students should experience sufficient learning opportunities to develop the following:
 - Identify information most pertinent to task.
 - Develop simple conclusions based on inductive and/or deductive reasoning.
 - Defend relevant information by linking it to the problem and/or area requiring clarification.
 - Cite all source(s) of quoted and borrowed information.
 - Develop a bibliography and a works/sources cited page using an appropriate format.Manufacturing executives increasingly indicate their employees need to be able to prepare accurate and concise written communications. Being able to conduct research and communicate it effectively is an important skill for industrial technology students to obtain. This assessment aligns with the Illinois Workplace Skill D4 (Communicating on the Job/Prepare written communication).
2. Have industrial technology students review and discuss the assessment task and how the rubric will be used to evaluate their work.
3. Review criteria for reliability, currency and accuracy of information.
4. The student will be familiar with proper formatting of works cited/bibliography entries (e.g., APA, MLA).
5. The student will be familiar with proper formatting of parenthetical notation (e.g., APA, MLA).
6. The industrial technology student will develop a bibliography of sources for the research paper assignment, using all available resources, both print and non-print.
7. The student will evaluate each source of information according to the criteria for reliability, currency and accuracy and shall discard any sources that do not meet those criteria.
8. The student will incorporate into and defend the use of sources in the manufacturing research paper by using proper introductions and explanations of the meaning and application of the sources to the points under consideration.
9. The student shall develop proper works cited/bibliography entries for each acceptable source, using the format designated by the teacher.
10. The student will develop the proper parenthetical notation entry (placement in text, required information, punctuation) for each block of evidence/data used in the research report, using the format designated by the teacher.
11. Evaluate each student's performance using the rubric. Add each student's scores to determine the performance level.

Examples of Student Work

- [Meets](#)
- [Exceeds](#)

Time Requirements

- The proper reporting and formatting of information in the text of the research report should be completed during the writing of the draft of the report
- Time requirement is included in 5A.J

Resources

- Copies of the documentation format
- Print and non-print resources from which to gather information
- Copies of the brainstormed criteria for accuracy, currency and reliability of information
- Examples of acceptable formatting of the bibliographic and parenthetical notation entries (optional)
- Manufacturing Research Paper Rubric

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NAME _____ DATE _____

- Exceeds standard (must receive 11 - 12 total points) Approaches standard (must receive 5 - 7 total points)
 Meets standard (must receive 8 - 10 total points) Begins standard or absent (must receive 3 - 4 total points)

	Analysis of Sources	Works Cited/Bibliography	Parenthetical Notation
4	<ul style="list-style-type: none"> • The student shall demonstrate the ability to correctly analyze all sources found and select for inclusion only those that meet the requirements for accuracy, currency and reliability. • The student shall defend the use of each source based on its application to the argument under development. • The student shall find five or more acceptable sources. 	<ul style="list-style-type: none"> • All entries on the works cited/ bibliography list shall be correctly formatted. • All entries shall be arranged in proper alphabetical order. • All entries shall have corresponding parenthetical notation(s) in the text of the report. 	<ul style="list-style-type: none"> • All parenthetical notations contain correct information. • All notations are properly inserted into the text. • All notations are properly punctuated.
3	<ul style="list-style-type: none"> • The student shall demonstrate the ability to correctly analyze most sources found. One source may not meet the requirements for accuracy, currency and reliability. • The student shall defend the use of most sources based on their application to the argument under development. • The student shall find four acceptable sources. 	<ul style="list-style-type: none"> • Most entries on the works cited/ bibliography shall be correctly formatted. Some minor errors in punctuation or occasional omission of information may occur. • All entries shall be arranged in proper alphabetical order. • Most entries shall have corresponding parenthetical notation(s) in the text. 	<ul style="list-style-type: none"> • Most parenthetical notations contain correct information. • Most notations are properly inserted into the text. • Most notations are properly punctuated.
2	<ul style="list-style-type: none"> • The student shall demonstrate the ability to correctly analyze some sources found. The list may include both acceptable and unacceptable sources, based on the criteria. • The student may defend the use of some sources based on their application to the argument under development. • The student shall find two or three acceptable sources. 	<ul style="list-style-type: none"> • Some entries on the works cited/ bibliography shall be correctly formatted. Some significant errors or omissions may occur. • Most entries shall be arranged in proper alphabetical order. • Some entries may not have corresponding parenthetical notation(s) in the text. 	<ul style="list-style-type: none"> • Some parenthetical notations contain correct information. • Some notations are properly inserted into the text. • Some notations are properly punctuated.
1	<ul style="list-style-type: none"> • The student shall demonstrate the ability to analyze few or no sources correctly. • The student may defend some sources. <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> • Defense of sources cannot be made. • The student shall find one or no acceptable sources. 	<ul style="list-style-type: none"> • Few or no entries on the works cited/bibliography shall be correctly formatted. Many significant errors or omissions may occur. • Entries are not listed in alphabetical order. • Few or no entries have corresponding parenthetical notation(s) in the text. 	<ul style="list-style-type: none"> • Few or no parenthetical notations contain correct information. • Few or no notations are properly inserted into the text. • Few or no notations are properly punctuated.
Score			