

Rhodri Jenkins (1801396)

historic poster

by Rhodri Jenkins

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Manufacturing in the old days

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Introduction

Material manufacturing has developed greatly over the past years, this poster is going to show how they used to manufacture material in the past and what they do in the present.



Prifysgol Cymru
Y Drindod Dewi Sant
University of Wales
Trinity Saint David

What is manufacturing?

Many car companies manufacture new car components for their models and they do this by using a method such as Die-Forming for example. They use this to bend a sheet of metal and can be worked on, e.g. a driver's side wing. And they use this on a large scale. Another example of this is outdoor bins, these can be mass produced by the system of Vacuum forming.



<https://www.techsoft.co.uk/WorkshopEquipment/ThermofformingEquipment/VacuumFormers>

Past of car manufacturing

In the past of manufacturing engineering companies did a real scale model of what ideas they had and tested it out, this cost them a lot more money than what it would now. And sometimes the prototype failed and all the materials they used and manufactured went to waste.

Present of car manufacturing

Currently car manufacturers release new cars but many components are the same as the older models. E.g. the Dacia cars use the old parts from Renault, (engine, door locks, wiring) and Range Rover do the same with the Evoque, same doors as previous models. This reduces manufacturing costs for the companies where as before most components were done newly built or built by hand.



Some car companies still manufacture like they did in their old days. E.g. Rolls Royce still hand stitch their interior and the paint strips on the car are all done by hand. This is why these cars value at 100k+.



<https://www.topgear.com/car-reviews/rolls-royce/phantom/inside>

Where did they get the energy from in the past?

In the 18th century the UK used windmills and wood for energy, this was good but this only created a small amount of energy to manufacture something large. But the early stages of fossil fuels created much more energy and in 19th environmental damage was starting to be created. But with no alternate solution, the problem has escalated into the present which now alternative solutions are being developed, e.g. hydrogen, more windmills.

Types of manufacturing

Now there are many different types of material manufacturing

- Sand casting
 - Bending
 - Lost foam casting
 - Forging
 - Additive
- And many more

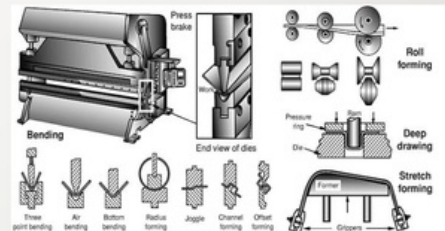


Photo courtesy of Kerry Tudor

References

UK, S. (2019). *Manufacturing and the environment: past, present and future* - SinoScan UK. [online] SinoScan UK. Available at: <http://sinoscan.co.uk/manufacturing-environment-past-present-future/> [Accessed 1 May 2019].

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GRADEMARK REPORT

FINAL GRADE

48/100

GENERAL COMMENTS

Instructor

You have adapted the poster template. We do ask that students do not change the template. The reason being is that in the final year, we have an end of degree show and for presentation / professional reasons we ask for them all to be in the same format.

All references should be in the Harvard referencing conventions. Any information included in the text that comes from a source should also be cited. For a technical poster I would expect you to have 3/4 references at least.

You need to proof read your work. The structure of sentences in some areas is not great and this disrupts the flow of the poster.

All brand / company names should start with a capital letter.

The section on the energy is interesting but doesn't seem to really fit with the rest of the poster.

There level of knowledge seems ok but there is a lack of analysis.

The poster just feels a bit disjointed.

Historic Poster Mark = 48%



Comment 1

Missing capital letter.

LITERATURE

Satisfactory
40-49%

(including reading, referencing, academic conventions and academic honesty)

OUTRIGHT FAIL 0-29%	Little or no evidence of reading and/or reliance on inappropriate sources. Views and findings mostly unsupported and non-authoritative. Referencing conventions used incoherently or largely absent.
UNSATISFACTORY 30-39%	Poor engagement with essential reading. No evidence of wider reading. Reliance on inappropriate sources, and/or indiscriminate use of sources. Heavily reliant on information gained through class contact. Inconsistent and weak use of referencing.
SATISFACTORY 40-49%	Engagement with a limited range of mostly relevant and credible sources but with some reliance on information gained through class contact. Some omissions and minor errors. Referencing conventions evident though not always applied accurately or consistently.
GOOD 50-59%	Engagement with an appropriate range of literature, including sources retrieved independently. Some over-reliance on texts rather than other sources. Referencing may show minor inaccuracies or inconsistencies.
VERY GOOD 60-69%	Engagement with a wide range of literature, including sources retrieved independently. Selection of relevant and credible sources. Generally sound referencing, with no/very few inaccuracies or inconsistencies.
EXCELLENT 70-84%	Engagement with an extensive range of relevant and credible literature. Consistently accurate application of referencing.
EXCEPTIONAL 85-100%	Exceptional engagement with an extensive range of relevant and credible literature. High-level referencing skills consistently applied.

K & U SUBJECT

Good 50-59%

Knowledge and Understanding of Subject. Extent of knowledge and understanding of concepts and underlying principles associated with the discipline.

OUTRIGHT FAIL 0-29%	Major gaps in knowledge and understanding of the basic underlying concepts and principles of the subject matter. Inclusion of irrelevant material. Substantial inaccuracies
UNSATISFACTORY 30-39%	Gaps in knowledge of the basic underlying concepts and principles, with flawed or superficial understanding. Some significant inaccuracies and/or irrelevant material.
SATISFACTORY 40-49%	Limited knowledge and understanding of the basic underlying concepts and principles within the subject area. Some elements may be missing
GOOD 50-59%	Knowledge of the basic underlying concepts and principles is accurate with a good understanding of the field of study but lacks depth and/or breadth.
VERY GOOD 60-69%	Competent knowledge of the basic underlying concepts and principles. Exhibits very good understanding

EXCELLENT 70-84% Excellent knowledge and understanding of the basic underlying concepts and principles of the subject.

EXCEPTIONAL 85-100% Exceptional, detailed knowledge and understanding of the basic underlying concepts and principles

C&I SKILLS

Satisfactory
40-49%

(Evaluate underlying concepts and principles of a subject and interpret qualitative and quantitative data in order to develop lines of argument and make sound judgements.)

OUTRIGHT FAIL 0-29% Wholly or almost wholly descriptive work. Little or no evaluation of the underlying concepts and principles. Failure to develop arguments, leading to illogical or invalid judgements. Minimal or no use of evidence to back up views.

UNSATISFACTORY 30-39% Largely descriptive work, with superficial evaluation of the underlying concepts and principles. Weak interpretation of data, flawed development of arguments and judgements. Information accepted uncritically, uses generalised statements made with scant evidence and unsubstantiated opinions. Ideas sometimes illogical and contradictory

SATISFACTORY 40-49% Limited attempt at evaluation of the underlying concepts and principles, tending towards description. Can interpret qualitative and quantitative data but with some errors. Some evidence to support emerging arguments and judgements but these may be underdeveloped or with a little inconsistency / mis-interpretation.

GOOD 50-59% Good evaluation of the underlying concepts and principles. Can interpret qualitative and quantitative data, with minor errors. An emerging ability to use evidence to support the argument. Mostly valid arguments and logical judgements.

VERY GOOD 60-69% Sound evaluation of the underlying concepts and principles. Can interpret qualitative and quantitative data accurately. Ability to devise arguments using evidence to make mostly appropriate and valid judgements.

EXCELLENT 70-84% Excellent evaluation of the underlying concepts and principles. Can interpret qualitative and quantitative data accurately and with some insight. Excellent ability to devise arguments using evidence and make appropriate and valid judgements

EXCEPTIONAL 85-100% Exceptional evaluation of the underlying concepts and principles based evidence. Outstanding interpretation of qualitative and quantitative data. Exceptional ability to devise arguments using evidence and make wholly appropriate and valid judgements

PROF PRAC

Satisfactory
40-49%

(Communicate the results of their study/work accurately and reliably, and with structured and coherent arguments; the qualities needed for employment requiring the exercise of some personal responsibility within a structured and managed environment.)

OUTRIGHT FAIL 0-29% Work is poorly structured, disorganised, inaccurate and/or confusingly expressed. Very weak use of language and/or very inappropriate style. Failure to work effectively individual or as part of a group. Little or no evidence of the skills for employment requiring the exercise of some personal responsibility.

UNSATISFACTORY 30-39%	Work is poorly presented in a disjointed manner. It is loosely, and at times incoherently, structured, with information and ideas often poorly expressed. Weak use of language and/or inappropriate style. Flawed approach to individual or group work, meeting only partial obligations to others. Limited evidence of the skills for employment requiring the exercise of some personal responsibility.
SATISFACTORY 40-49%	Mostly ordered presentation and structure in which relevant ideas / concepts are reasonably expressed. Work may lack coherence and/or accuracy in places. Can work as part of a group, meeting most obligations to others but perhaps with limited involvement in group activities. Demonstrates the basic skills for employment requiring the exercise of some personal responsibility, with some areas of minor weakness.
GOOD 50-59%	Mostly coherent, organised and accurate work, in a suitable structure and is for the most part clearly expressed. Can work effectively independently and/or as part of a team, with clear contribution to group activities. Demonstrates the skills for employment requiring the exercise of some personal responsibility, with some areas of strength and some of minor weakness.
VERY GOOD 60-69%	Work is accurate, coherent, fluent, well-structured and organised. Can work effectively independently and/or as part of a team, with very good contribution to group activities. Demonstrates very good skills for employment requiring the exercise of some personal responsibility, with just occasional minor weakness.
EXCELLENT 70-84%	Work is coherent, very fluent and is presented professionally. Can work effectively independently and/or as part of a team, with an excellent contribution to group activities. Demonstrates excellent skills for employment requiring the exercise of some personal responsibility with an appetite for further development.
EXCEPTIONAL 85-100%	Work is accurate, exceptionally coherent, very fluent and presented well. Can work effectively independently and/or as part of a team, with an exceptional contribution to group activities. Demonstrates exceptional skills for employment requiring the exercise of some personal responsibility with an appetite for further development