



**NCCA**

An Chomhairle Náisiúnta  
Curaclaim agus Measúnachta  
National Council for  
Curriculum and Assessment

# Junior Cycle Applied Technology Classroom-Based Assessment 2: Example of Student Work 08

January 2024

## CBA 2 – SELF ANALYSIS AND EVALUATION



[Click here](#) to listen to the student voiceover for this slide

### Choosing a skill to self-Analyse and evaluate

- Throughout my first and second year in applied technology I learnt a range of skills and conducted many projects.
- We manufactured a "key holder", "desk fan" "rack and pinion project", "quick return mechanism" and "the barrier project"

We engaged in a range of skills:

Marking out – try square, dividers

Processing – saws, files

Shaping - saws, files, emery paper

Finishing – files, needle files, steel wool

Soldering - solder iron, solder

Sketching - 2D, isometric



[Click here](#) to listen to the student voiceover for this slide



[Click here](#) to listen to the student voiceover for this slide

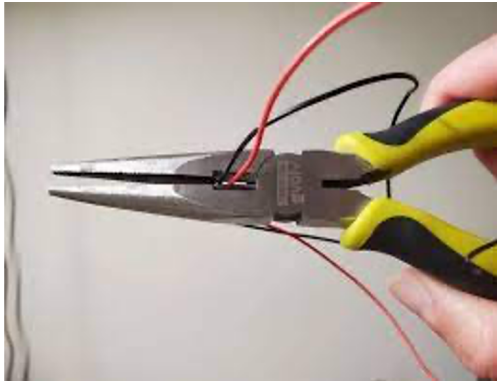
**My chosen skill**

- The skill I chose to evaluate and improve on is wiring because it is something I have had to work hard to improve over the past 2 years.



**First year wiring**

[Click here](#) to listen to the student voiceover for this slide



**How I improved this skill:**

To improve the wiring, I asked my teacher for assistance to improve my techniques and accuracy.

My teacher showed me how to wire my projects neater and more effectively by cutting the wires to the correct length.

I practiced getting the wires looking neater and making sure they were working the way I had intended and with every project my wiring skills improved.

[Click here](#) to listen to the student voiceover for this slide

**How/why did I improve**

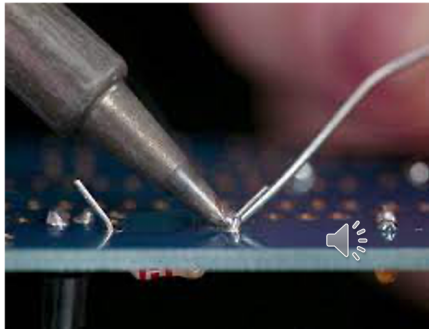
I used diagrams to guide me when placing my wires.

My teacher told me to take my time and only use small amounts of solder. When I followed this advice, I noticed a big improvement in the neatness of my projects.

**UNDERSIDE VIEW OF DPDT SWITCH**

INPUT

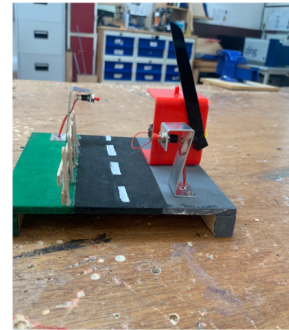
REVERSING POLARITY OUTPUT



[Click here](#) to listen to the student voiceover for this slide

## My improvements

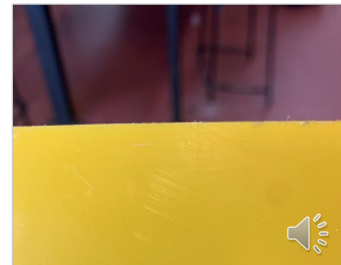
After lots of practice and asking for help and advice I have improved my wiring skills dramatically.



[Click here](#) to listen to the student voiceover for this slide

## My second chosen skill

- The second skill I have improved on is my cutting and filing skills because this is something I struggled with for the first few months of first year, but I've since improved my skills.



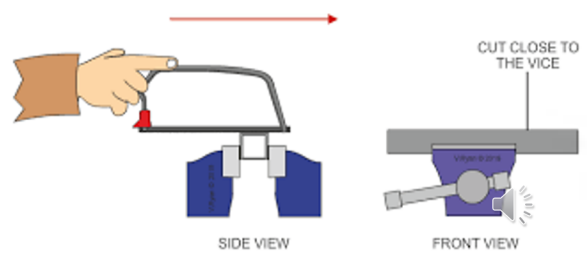
[Click here](#) to listen to the student voiceover for this slide

## How/why did I improve

To improve my cutting skills, I have engaged in various practices over the past two years of my junior cycle technology course.

I used a coping saw or a junior hacksaw to improve my accuracy and drew out guidelines to make sure I was cutting in a straight line.

My teacher showed me how to place the acrylic in the vice to ensure the lowest chances of my piece cracking, he also told me to make sure I cut downwards to reduce the risk of injury.



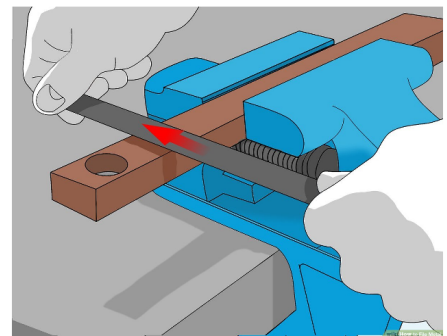
[Click here](#) to listen to the student voiceover for this slide

## How/why did I improve

Once I had mastered cutting in a straight line I then had to learn how to file neatly and also in a straight line.

I learned about the various types of equipment needed in order to achieve a straight edge using a file. I needed a file, needle file and sandpaper.

I also watched YouTube tutorials at home to help me prepare for class.



[Click here](#) to listen to the student voiceover for this slide



## How/why did I improve

- In order to perfect my filing technique, it was important I understood the differences between the different files in the technology room.
- A rough file is used to remove more material in a shorter amount of time and is typically what I'd use if I needed to remove more than 1.5cm of material on my piece.
- A smooth file is used to finishing and takes off less material and leaves a nice smooth surface, I'd usually use a smooth file after I've finished with my rough file to make sure I file exactly to the line I've marked out.
- A needle file is a smaller file used to finish and shape acrylic, I would use one of these if I wanted to shape the edges of my acrylic or if I felt I could be more accurate in filing to the line I had marked out.



[Click here](#) to listen to the student voiceover for this slide

## Making judgements

I have made these judgements for the purpose of future decisions and for my upcoming project. By improving these skills over the past two years, I feel I am now ready and able to perform these skills to a high standard in my future projects.



[Click here](#) to listen to the student voiceover for this slide

## Conclusion

- In conclusion I have learned the importance of analysis and evaluation when it comes to my work.
- Going forward I will apply all I've learnt from this cba and the past two years of my junior cycle applied technology course to my junior certificate project in order to achieve the best possible results.
- I have improved dramatically and I'm still learning but this cba has helped me recognise and appreciate my hard work and how far I've come over the past two years.



[Click here](#) to listen to the student voiceover for this slide



## Teacher annotations using the Features of Quality

The annotations capture observations by the teacher, using the features of quality, with a view to establishing the level of achievement this work reflects. The annotations and judgments were confirmed by a Quality Assurance group, consisting of practising teachers and representatives of the NCCA, the Inspectorate, the State Examinations Commission and the Oide support service.

### Teacher annotations

#### Self-analysis of coursework elements:

The student identified a broad range of coursework elements over the course of 1<sup>st</sup> and 2<sup>nd</sup> year. This was evidenced using photographs of project work. This allowed them to make insightful detailed observations in relation to each coursework element presented and to conduct a comprehensive self analysis on the development of their skills to date.

#### Making judgements:

Judgements made on areas of strengths and areas for improvement were detailed. The student demonstrated a high level of awareness of how their judgements would inform future work. This was evidenced by the student asking for teacher guidance as well as having an awareness of success criteria for mastering their chosen skills. Through a more in-depth analysis of how and why the skills improved, a greater awareness could have demonstrated of how these judgements would inform future work.

#### Communicating their CBA:

The presentation of the findings was of an excellent standard; using a highly effective PowerPoint presentation that incorporated the use of voiceover files and photographs of student work and projects. The presentation allowed for a critical consideration of what information best communicated their Classroom Based Assessment.

Overall judgement:  Exceptional

