WORK EVIDENCE SHEET

Evidence Ref. No: 14

Learner Name:
Aidan O'Flynn-mundin

Employer:
Isle of Wight Steam Railway

Address of site:
Havenstreet Station, Isle of Wight Steam Railway, Main Rd, Havenstreet, Ryde PO33 4DS

Job Start Date: **31st May 2023**

Job Completion Date: **10th August 2023**

Name of Job: **LCDR 4115 Internal Door**

Brief details of job: **I was tasked to manufacture an internal compartment door for Carriage 4115. This door would interlink compartments A & B. I designed the door to replicate an existing compartment door.**

Have you had a site induction on this site and / or had toolbox talks?

When I started my apprenticeship.

How did you receive your work instructions? (Attach specification / drawing / schedule or witness testimony confirming verbal instructions if possible.)

Verbal instructions by my supervisor (Paul Fisher). For design and specifications purposes I took reference from an existing internal door & frame, that was fitted to a previously restored carriage. I adapted the previous design for 4115 and I also made a specification drawing for the frame & door.

Planning for the job: Did you arrange materials to be delivered / moved before you started work?

Materials had been ordered for the project in DEC 2022

Give details of the people you spoke to, the instructions you received & the type of communication. (Oral, listening, body language?)

Colleagues:
Foreman:
Supervisor: **Paul Fisher Charge-Hand Carpenter, Verbal demonstrational tutorial guidance & advice.**
Client:

What materials did you use? (List them all)

w23.5cm, L200cm Sapele x 2

Ironmongery: Brass Hinges, Vintage effect handles & mortice latch

Medium oak stain & Medium oak stain varnish

How did you store them on site? **Carriage & Wagon Workshop**

What protection did you make for the surrounding area, materials & equipment before starting work? (Explain)

No protection required due to workshop environment however when machines were in used, I made sure that all guarding and extraction was fitted and used correctly to minimise risk to myself and others.

List the hand tools & any equipment that you used:
Marking gauge
Tenon Saw
Various chisels
Malet
Pencil, steel rule, adjustable square, Tape measure & Square

List the power tools that you used:
Stenna Bandsaw (used to rip the timber to size)
Kitty Bandsaw
SCM Planer thicknesser
Stromab Radial Arm Saw
Wadkin Bursgreen Morticer
Sedwick Spindel moulder
Makita Trimmer router & Ryobe combe drill

Where were the tools & equipment stored on site? **Carriage & wagon workshop**	
What maintenance did you carry out on the tools & equipment? **Sharpened chisels, set up and changed morticer chisels & spindle moulder cutters and blocks.**	
What PPE was necessary / used?	**Yes, P3 Dust mask, Eye & Ear protection, steel capped work boots, Overalls, work gloves & Nitrile gloves**
Explain details of any hazards on the site (E.g. cables, fumes, Access etc.) How did you deal with the hazard?	**Operating Machinery & wood dust** **When operating machinery, I used the machinery in line with my training, used dust extraction, wore appropriate PPE when operating machinery.**

Briefly describe the work you did; how you protected it & any access equipment you may have worked from:

I was tasked to manufacture an internal compartment door for Carriage 4115. This door would interlink compartments A & B.

I had previously designed the door and frame in CAD using reference from an existing compartment door; therefore, all dimensions had already been calculated in CAD which was then used to make a cutting list.

I milled the timber, planed and cut all the components to size, I marked the timber, then cut all mortices & tenons on the stiles, rails & mullions.

The panels are held in by beading, this is because if any panels were damaged whilst in traffic, it's easier to repair a panel with beading than a panel set into a groove, I setup the spindle moulder block and cutters to field the panels and cut the beadings.

Once I had assembled the door and removed the horns and excess tenons, I dry fitted the door into is completed frame on a work bench, after any adjustment, I marked the hinge placements on the frame & door then cut the hinges into them before fitting the door & frame to the carriage.

I stained the door with medium Oak Stain twice before adding two coats of stain varnishing.

I cutout and fitted all the ironmongery, then hung the door in its frame inside carriage 4115.

Did you work at height on this task? Did you check the equipment for safety?

Did not work from height

Did you do this task on your own or as part of a team? (If on your own, how did you take responsibility for completing the work?)

On my own & with guidance from my supervisor.

Explain what the time constraints for this job were:

No time limit.

Was the quality of your work checked when it was completed? Was there anything you could improve next time?

My work was checked during the manufacturing process of the door and was checked upon completion.

What problems / difficulties were there? (e.g., delays due to damaged materials / equipment, problems from the weather or access to premises)

No difficulties for this task

How did you sort the situation out?

N/A

Give details of any changes to the work programme. What changes took place; name the people who informed you.

When I was halfway into the project, I was requested to assist with a complete carriage revarnish this set the project back by 2-3 weeks. I was informed by my supervisor.

There has been various maintenance & repairs on running rolling stock that have taken priority over the project, also during the project, I had been on ~~annual~~ annual leave.

How did you clean up the work area & what did you do with unused materials?

At the end of the day, I hoovered the workspace & machines. Any unused materials were either stored in the stores or if unsuitable would be disposed of.

What did you do to keep the workplace secure? (e.g., lock premises, ensure visitors sign in)

Locked the workshop at the end of each working day & used sign in.

What company rules did you follow?

IWRS Workshop Rules & Dust extraction Plan
Health and safety at work act 1974
Woodworking Machine regulations 1974
Personal Protective equipment Regulations 1992
Provision and Use of Work Equipment Regulations 1998

What company documentation did you complete? (e.g., timesheets)

Sign in sheets, machinery safety form & timesheets

Photographs- Date, location, WBR's signature. Identify yourself with an arrow if others are in the photo.

State the number of photographs attached: **29** Staple photographs to evidence sheet.

Candidates Signature: [signature] Date: 13-09-23

I CONFIRM THAT THE DETAILS GIVEN ABOVE ARE ACCURATE -		
WBR / Supervisor's / Customers Name (Please print): P Ritter		
Position in company: Chargehand		Tel. No.
WBR / Supervisor's / Customer's Signature: [signature]		Date: 13/9/23

Please note that this form cannot be accepted as evidence UNLESS it has been signed & dated by all concerned.

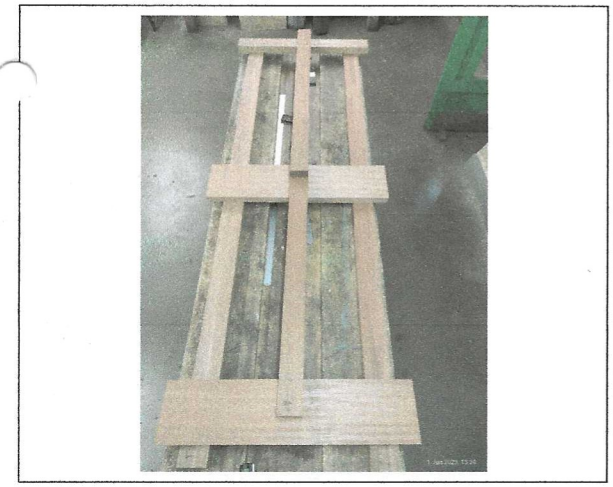
Photographs

Date: 31 – 5 – 2023 / 10 - 8 - 2023

Location: Isle of Wight Steam Railway Carriage & Wagon workshops

Timber components ready for planning

Marking Timber



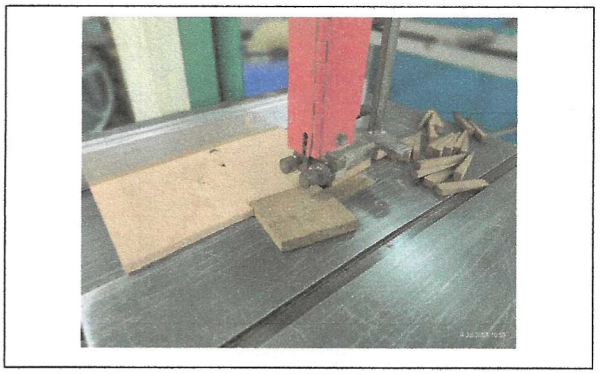
All marked components laid out

Cutting Mortices in Stiles

Running Tenons

Cutting tenons on radial arm saw

Dry assembly of tenons



Wedge Making Jig

Door glued, wedged & clamped

Door & Dry Fit

Planning timber for beading

Setting up Spindle Moulder cutter

Beading

Cutting panels to length

Cutting Panels to width

Staining panels & beading

Fitting panels & beading

Cutting Hinges

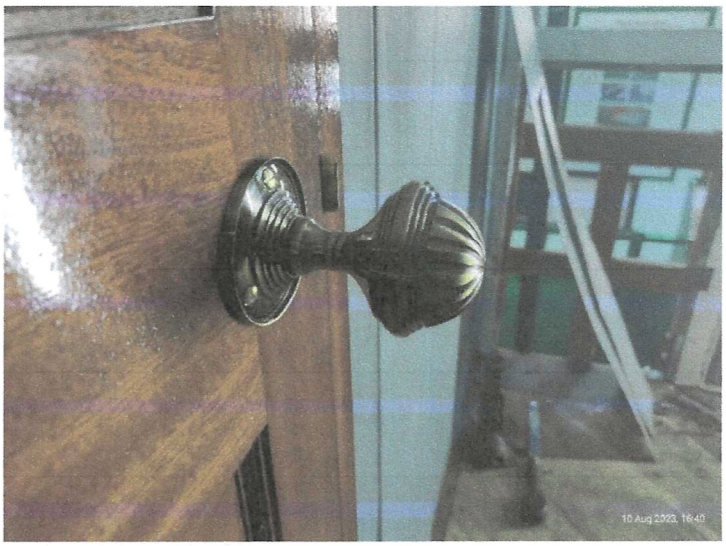
Hinges cut into door & frame

Staining Door

Varnishing

Latch & spindle cutout

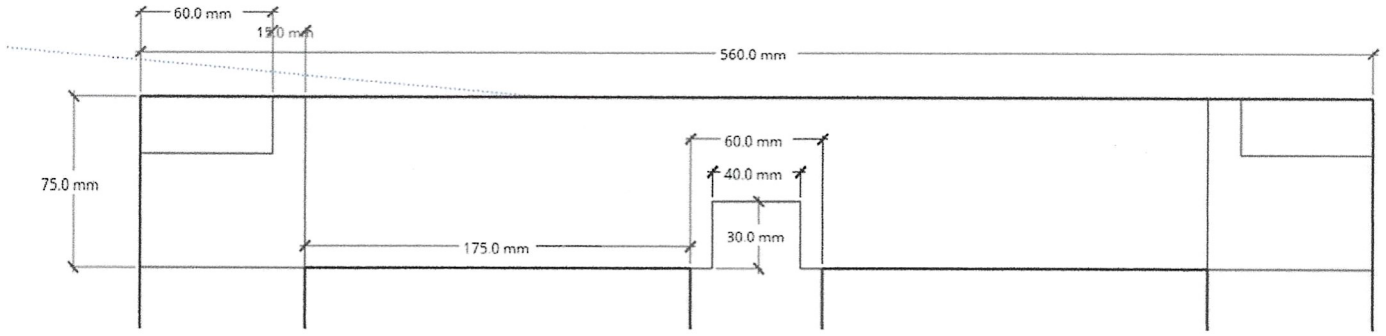
Latch & doorknob fitted



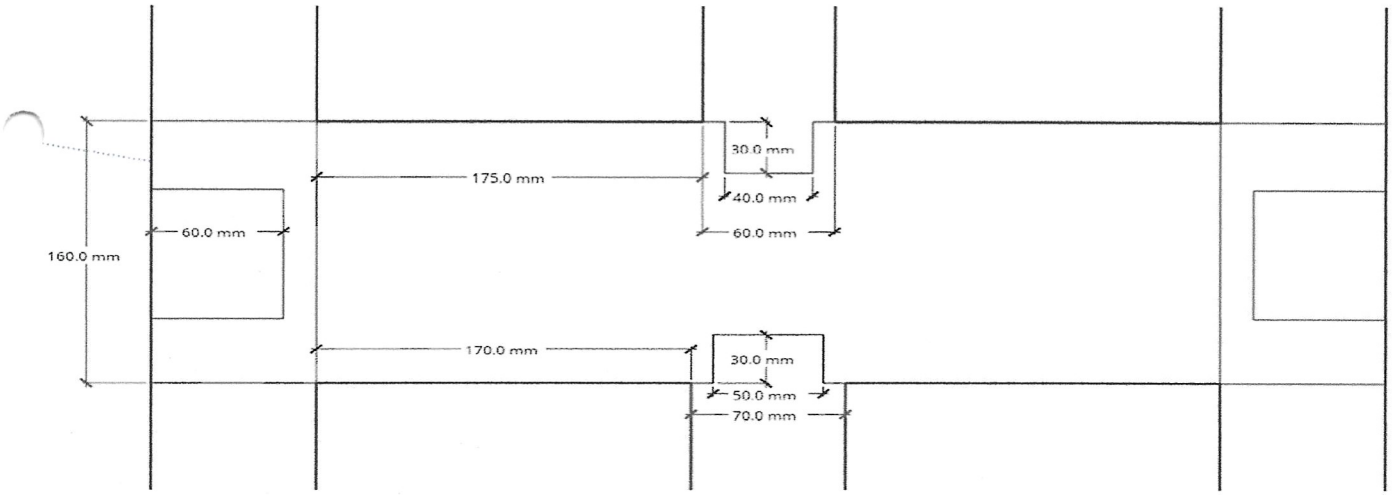
Project Completed

Specifications

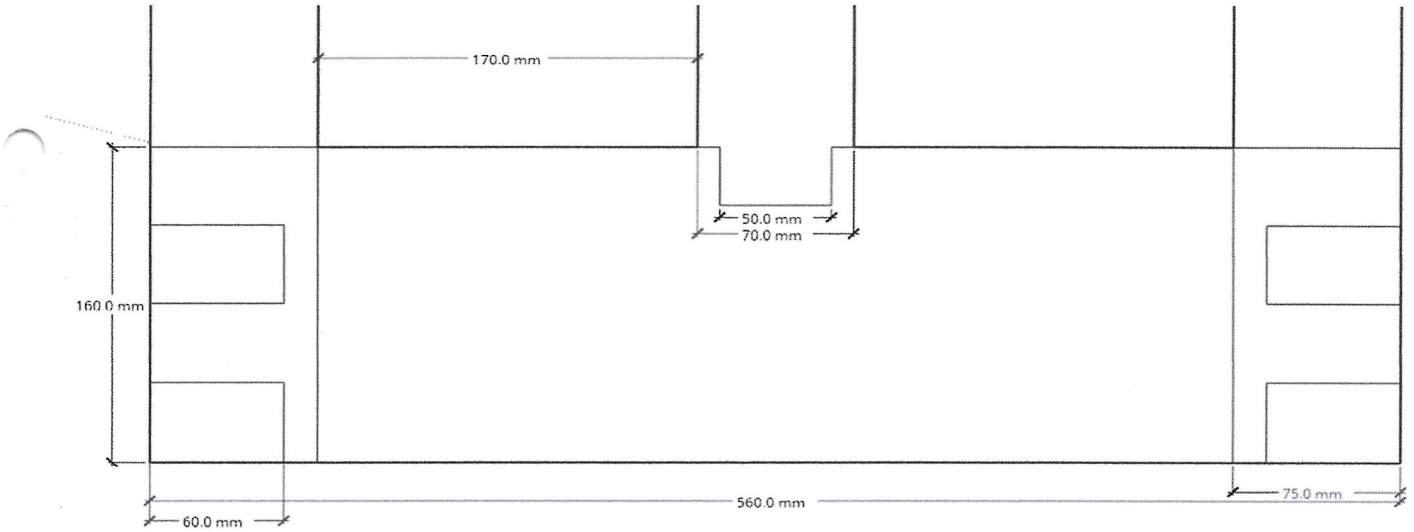
Top Rail

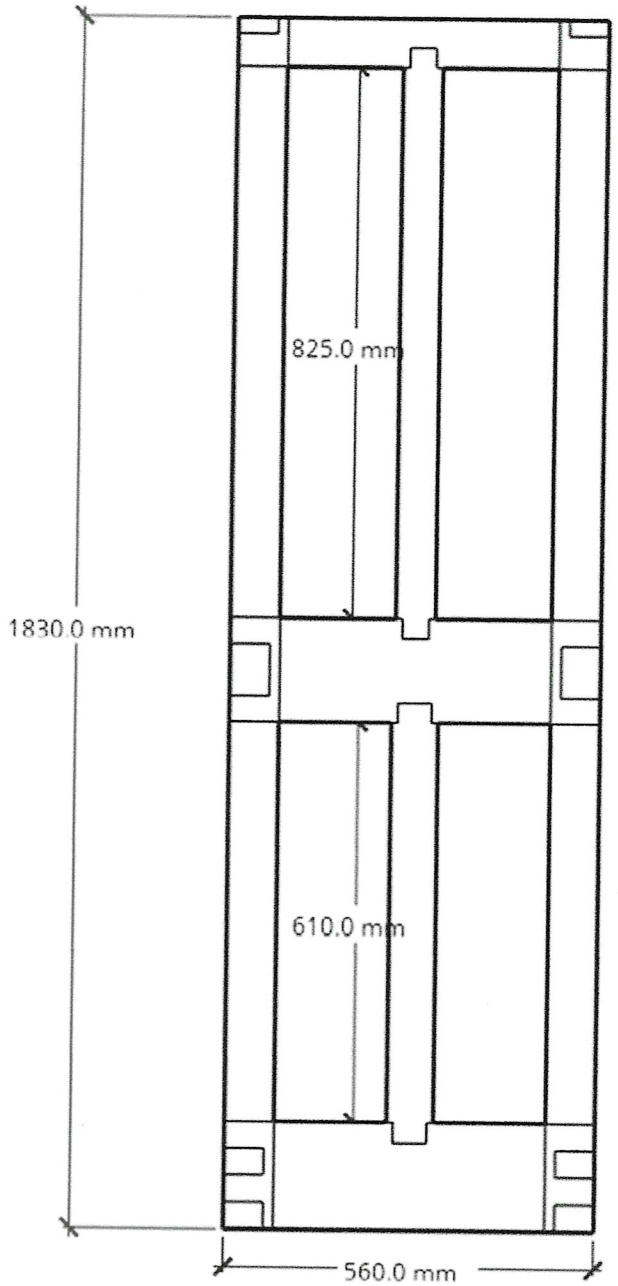


Middle Rail



Bottom Rail





LCDR 4115 Door Dimensions:

ITEM: DOOR	Length	Width	Depth	Quantity	Units
STILES	1830	75	35	2	mm
TOP RAIL	560	75	35	1	
MIDDLE RAIL	560	160	35	1	
BOTTOM RAIL	560	160	35	1	
TOP MULLION	885	60	35	1	
LOWER MULLION	670	70	35	1	
TOP PANELS	825	175	10	2	
LOWER PANELS	610	170	10	2	