

**PENANG SANGAM HIGH SCHOOL
P.O.BOX 44, RAKIRAKI**

LESSON NOTES-13

School: PENANG SANGAM HIGH

Year/Level: 12

Subject: APPLIED TECHNOLOGY

Strand	AT 12.6 APPLIED TECHNOLOGY
Sub Strand	AT 12.6.1 Carpentry and joinery.
Content Learning Outcome	AT12.6.1.1 Demonstrate knowledge on safety, materials, tools and process and develop practical skills in joinery works relative to building work, doors and fitting and fitments.

WOODWORKING JOINTS

MORTISE AND TENON JOINTS

The mortise and tenon joint is one of the oldest framing joints known to man. The ‘tenon’ is the tongue piece cut in one member and the ‘mortise’ is the hole or recess cut in the other.

COMMON OR THROUGH MORTISE AND TENON JOINT

This is the simplest form of the mortise and tenon joint. It is used when a rail meets a stile some distance in from the end.

HAUNCHED MORTISE AND TENON JOINT

This joint is used when the rails meets the stile or leg at the end.

LONG AND SHORT SHOULDERED MORTISE AND TENON JOINT

When the rails and stiles have been rebated as for panelled and glass door frames, the rail must have one shoulder cut longer than the other to fit into the rebate.

HOUSING OR HOUSED JOINT

Use to connect one piece of wide board to another such as for shelves and divisions in cupboards.

THROUGH HOUSING JOINT

It is used for cheaper work such as shelving and ladders.

STOPPED HOUSING JOINT

It is used for shelving and divisions where a neat appearance is required.

DOVETAIL HOUSING JOINT

This is used when a strong joint is required. The end of the shelf or division is dovetailed to fit into the dovetailed trench or groove.

DOVETAILED AND HOUSED JOINT

This used when joining wide boards and is a combination of ordinary housing and the tapered and stopped housing joint.

SHORT ANSWER QUESTIONS

1. Name the joint which is used to connect one piece of wide board to another such as for shelves and divisions in cupboards.

2. Explain the joints given below:

- a) Mortise and tenon joints:

- b) Housed joint:

- c) Dovetail and housing joint:

THE END