

Module Seven: Press Fitting and Bearings

Introduction to Fabrication

Hands on Activity

Please find the toolkit marked “Module Seven” for today’s hands on portion. The Press Fitting and Bearings activity will be mostly hands on exploration and less homework. Please complete the following guided activity below.

Activity One: Press Fit Bearings

Inside the toolkit is a shaft with bearings press fit into place. Please take this out and try to ‘pop’ or ‘un-press fit’ the joints. It is not as easy as it looks. Give short answers to the following after handling the press fit parts.

1. Why is it difficult to take the press fit parts apart?
2. What will happen if we continue to press fit and pull apart these bearings?

Activity Two: Bearing types

Inside the toolkit find four small bags. They are labelled A, B, C and D. You are welcome to take the parts out of each bag and examine, but please return them to the proper bag. Please answer the following questions about the parts in each bag.

A. What type of bearing is in Bag A? _____

Will this bearing work as it should? Why or Why not?

B. What type of roller bearing is in Bag B? _____

Why does it not move smoothly? How could you remedy this?

C. What type of generic bearing is in Bag C? _____

D. What kind of bearings are in Bag D? _____

Once you've completed all of your tasks, please sign the bottom of this paper and leave it in the designated bin at the front of the lab. Please put all tools back inside their proper cases and lock them in the proper locker.

I have completed the tasks and module to the best of my ability on my own:

_____ Signature

_____ Date