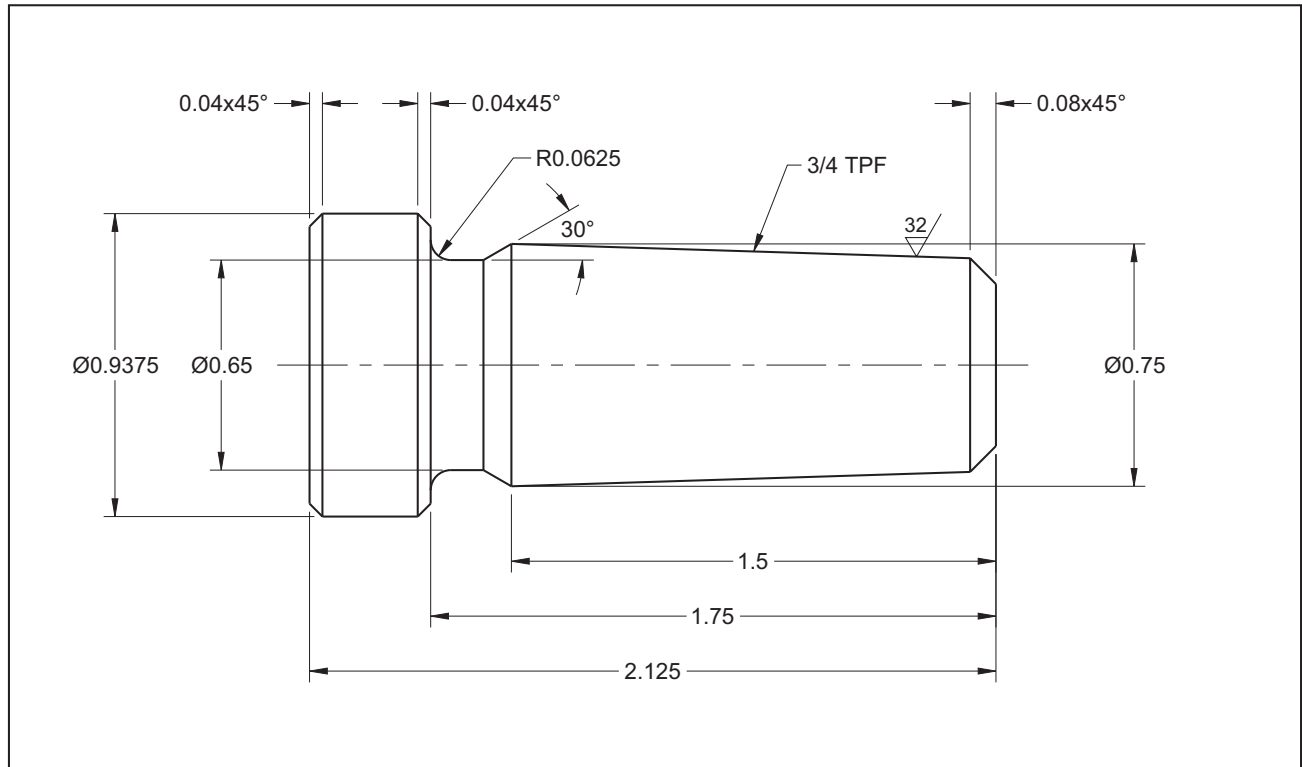


Taper machining on a CNC lathe is an operation used for various pins, shaft ends, and as a premachining operation for tapered threads. In the project, a taper is defined by *ENGLISH* designation, as a *taper per foot (TPF)*.



➡ To develop the part program, follow these instructions:

1. Use an aluminum bar stock of Ø1.0
2. Use a 55° turning tool with 3° lead angle
3. Use 0.125 wide part off tool
4. Machine to drawing specifications

➡ Questions:

1. Define taper per foot \_\_\_\_\_
2. Develop a formula to calculate the *small taper diameter* (d), based on the *taper length* (L), the *large diameter* (D) and the *taper per foot* (T):