

# I-04

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## TOOLMAKER TRAINING

### TRAINER'S GUIDE

Duty I: Jig Bore  
I-04: Chart Dimensions

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## **Instructions To The Trainer**

1. The Learner will contact you when ready to practice charting dimensions.
2. Be prepared to demonstrate the steps for this task.
3. Ask the Learner to contact the Evaluator when ready for the Skill Check.



## **Skill Objective**

Given a jig bore with the work surfaces clean, setup equipment indicated, and the machine origin set, chart the dimensions.

### **Task Standards**

1. Charted dimensions must match the part dimensions.
2. All safe practices must be demonstrated during machine operation.

## What The Learner Will Need

This section contains the safety information, tools, and resources you will need before charting dimensions.



- Follow all Caterpillar facility safety standards when performing this task.
- During machine setup, the machine spindle must be in the neutral state.



- jig bore
- required tool room equipment
- dial indicator (tenths)



- prints
- piece parts



## **Practice Set-Up**

The Learner may perform the following practice to help prepare for the Skill Check. Set up the practice for the Learner. Assist the Learner during the practice, if necessary; answer any questions concerning the task; and be prepared to demonstrate the task to the Learner. Make sure the Learner follows safe work practices while practicing the task.

### **Practice**

Provide the trainee with the same piece part used in the skill steps. Have the trainee set up the part and chart the hole pattern. Check to make sure the first hole is charted accurately before asking the trainee to chart the second hole. Ask the trainee to draw a sketch which accurately displays the hole dimensions.

### **Practice Objective**

Each hole must be charted according to the specifications. The Trainer must agree that the drawing accurately displays the hole dimensions. All safe practices must be demonstrated while completing the charting activity.

### **Tools and equipment:**

jig bore machine, corner knee, piece part with four holes, paper, pencil, dial indicator (tenths), ruler

## **Next Step**

Allow the Learner to continue practicing and developing skills needed to demonstrate the task. The Learner should ask the Evaluator to schedule a Skill Check when ready to demonstrate the task unaided and meet all the task standards and safe work practices.

