

L-08

TOOLMAKER TRAINING

SKILL CHECK GUIDE

Duty L: External Grinder
L-08: Set Up External Grinder
Issued 06/01/98

Rationale

This Skill Development Guide provides the knowledge a Learner needs to set up the external grinder to grind surfaces on different parts. The external or universal grinder is capable of many types of grinding operations. Apprentices should be aware of the how to access the machine's functions.

Skill Check Set-Up

Schedule an external grinder for the Learner to set up for the Skill Check. Provide the tools, materials, and resources needed to demonstrate the task.

What The Learner Will Need

This section contains the safety information, tools, and resources you will need before setting up the external grinder.



- Follow all Caterpillar facility safety standards when performing this task.
- Be aware of rotating equipment and pinch points.



- external grinder
- part (workpiece to be ground)
- fixtures and/or tooling to adapt the part to the external grinder
- dial indicator
- copper/brass knocker
- lubricating grease
- shop towels
- tools to tighten driven dog



- part dimensional print
- process sheet
- external grinder documentation



Skill Check

Given an external grinder, a workpiece (part) to be ground, and appropriate accessories (work centers, arbors, drive dogs, etc.), set up the external grinder.

Needs
Mastered Practice

Safe Work Practices

- | | | |
|-------|-------|--|
| _____ | _____ | 1. Follow all Caterpillar facility safety standards when performing this task. |
| _____ | _____ | 2. Be aware of rotating equipment and pinch points. |

Task Standards

- | | | |
|-------|-------|---|
| _____ | _____ | 1. The part must be mounted so that it can be ground to the specified dimensions without damage to the part or the grinder. |
| _____ | _____ | 2. All safety requirements must be demonstrated. |



Evaluator's Sign-Off

The Learner has demonstrated safe work practices and competent performance of the task.

Evaluator: _____ Date: _____

Learner: _____ Clock No: _____

