

Clery Hesse

CAT_® Equipment Technician

Brensel

drop date

TITLE

MAG 5 - Service Fundamentals

CATALOG DESCRIPTION

This course is an introduction to the Caterpillar customer service department. The course will explore the role of the equipment technician in the agricultural and construction equipment industry. Emphasis will be placed on computer and literature applications common to service departments. Topics to include reporting, parts order procedures, technical reference materials, tools and measurement, time management and warranty.

UNITS & HOURS

3 Units Tuesday 3 hours lecture per week

6:00 to 8:50 p.m.

MATERIALS

CAT three-ring binder and materials (RC Bookstore). Instructor prepared materials.

ASSIGNMENT & GRADING

This class is designed as an introduction to the Caterpillar customer service department. Classroom performance will constitute 60% of the student's grade. Homework assignments, tests and quizzes will determine the balance of the grade.

Point distribution: 90% = A, 8% = B, 70% = C, 60% = D, < = F

Class Participation	18 @ 10 points each		180
Log Book	36 @ 5 points each		180
Midterm			100
Final Exam			100
Class Assignment			240
Homework			<u>200</u>
	Total	=	1 000

UNIFORMS

Uniforms are required at all class meetings after the third week.

FINAL EXAM

Tuesday, December 5, 1998; 6:00 p.m.

GRADE POLICY

See separate sheet.

COURSE

A. The Caterpillar Service Department

- 1. What is Caterpillar?
- 2. Caterpillar Nomenclature Engines and Machines
- 3. What is an equipment technician?
- 4. Career Opportunities with CAT Dealers

B. Shop Safety Practices

- 1. Lifting and Blocking
- 2. Shop Chemicals and Safety
- 3. Shop Cleanliness

C. Technical Reference Materials

- 1. Serial Numbers/Arrangement Numbers
- 2 Operator's Manuals
- 3. Service Manuals
- 4. Parts Order Materials, Procedures and Forms
- 5. Special Instructions
- 6. Reusability Guidelines
- 7. Machinery Updates

D. Mechanical Skills

- 1. Tools and Their Use
- 2. Precision Measurement
- 3. Torquing Tools
- 4. Fasteners
- 5. Fittings, Hose, Tubing

E. Service Work Orders

- 1. Preparing a Service Work Order
- 2. Estimates and Parts Itemizing
- 3. Recording Labor Costs Time Cards, et al.
- 4. Communicating with Customers Written and Verbal
- 5. Warranty and Policy

F. Time Management

- 1. Productivity
- 2. Revenue vs. Expense Hours
- Flat Rates
- 4. Hourly Rates