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ABSTRACT

To improve vocational educational programs in agriculture, occupational information on a common core; of basic skills within the occupational area of the feed mill Workers is presented in the revised task inventory survey. The purpose of the occupational survey was to identify a common core of basic skills which are performed and are essential for success in the occupation. Objectives were accomplished by constructing an initial task inventory to identify duty areas and task statements for the occupation. The initial task inventory was reviewed by consultants in the field, and 135 tasks were identified. A random sample of 75 retail feed businesses based on the 1975 directory of the Ohio Grain, Feed, and Fertilizer Association, Inc. was obtained. Data were . collected utilizing employer and employee questionnaires. Forty, two questionnaires were returned of which 39 were usable. A compilation of basic sample background information is presented on size of feed mill, total work experience, employment at current job, and preparation as a feed mill worker. A compilation of duty areas of work performed and work essential for the occupation is given. Percentage performance by incumbent workers and the average level of importance of specific task statements are presented in tabular form. (Author/EC)

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CE005 643

DETERMINATION OF A COMMON CORE OF BASIC SKILLS IN AGRIBUSINESS AND NATURAL RESDURCES

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An Emperical Determination Of Tasks

Essential To

Successful Performance

AS A

Feed Mill Worker

DEPARTMENT OF AGRICULTURAL EDUCATION

THE OHIO STATE UNIVERSITY COLUMBUS, OHIO 43210

ERIC

AN EMPERICAL DETERMINATION OF TASKS ESSENTIAL TO SUCCESSFUL PERFORMANCE AS A FEED MILL WORKER

→ Daniel R. Miller

Edgar, P. Yoder

J. David McCracken

Department of Agricultural Education
in cooperation with

The Ohio State University Research Foundation
The Ohio State University

Columbus, Ohio

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U.S. Department of Health, Education and Welfare U.S. Office of Education

FOREWORD

The Department of Agricultural Education at The Ohio State
University is involved in a major programmatic effort to improve
the curricula in educational programs in agriculture. One product
in this effort is this report of the feed mill worker task inventory survey. The data reported were collected as part of a
more comprehensive thrust designed to develop a common core of
basic skills in agribusiness and natural resources.

It is hoped that the revised task inventory contained in this report will be useful to curriculum developers working for improved occupational relevance in schools. Twenty-seven additional inventories in other occupational areas are also reported from this project.

The profession owes its thanks to Daniel R. Miller, graduate research associate, for his work in preparing this report.

Special appreciation is also expressed to George G. Greenleaf,

Executive Vice President, Ohio Grain, Feed, and Fertilizer Association, Inc., for his input and help in securing the cooperation of those employed in this occupational area.

Jy David McCracken Project Director

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INTRODUCTION

Occupational information is needed to develop and revise vocational and technical education curricula. Teachers and curriculum developers generally determine which skills might be taught in a program based upon teacher expertise, advisory committee input, informal and formal community surveys, and/or task inventories.

The Agricultural Education Department at The Ohio State
University has utilized and revised a system for obtaining and
using occupational information as an effective aid in planning,
improving, and updating occupational education curricula. This
report presents the results of a task analysis survey of the
occupation, feed mill worker. The information contained herein
may be used by curriculum development specialists, teachers,
local and state administrators, and others involved in planning
and conducting vocational and technical programs in agriculture.

Purpose and Objectives

The major purpose of the occupational survey was to identify the skills which are performed and essential for success as a feed mill worker. The specific objectives of this survey were as follows:

- 1. Develop and validate an initial task inventory for the feed mill worker.
- 2. Identify the specific tasks performed by the feed mill worker.
- 3. Determine the relative importance of the specific tasks to successful employment as a feed mill worker.

Definition of the Occupational Area

The feed mill worker works in retail feed mills or country elevators which deal directly with the public. The specific duties performed by the feed mill worker will vary with the size and type of business. The feed mill worker is primarily involved with the work performed in the mill which relates to the preparation of feeds for customers. In general, the feed mill worker operates and maintains mill equipment used in handling and processing feeds; loads and unloads materials and supplies; stores and warehouses materials and supplies; picks up and delivers feeds; prepares feed mixtures; and cleans and maintains the mill buildings and structures. In some firms the feed mill worker may be called a feed grinder or a mill hand.

METHODOLOGY

Objectives were accomplished by constructing an initial task inventory, validating the initial inventory, selecting a sample of workers, collecting data, and analyzing data.

Initial Task Inventory

Duty areas and task statements for the feed mill worker were identified by searching existing task lists; job descriptions, curriculum guides, and reference publications. Additionally, contacts with several industry personnel aided in clarifying the specific responsibilities of the feed mill worker. All the tasks that the project staff thought to be performed were assembled into one composite list.

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The initial tasks were grouped into functional areas called "Duties".

After the task statements were grouped under the proper duty areas, each task statement was reviewed for brevity, clarity, and consistency. In all, 206 task statements were included in the initial task inventory.

Initial Inventory Validation

After the initial task inventory was constructed, it was reviewed by ten consultants employed in retail feed mills and country elevators. These consultants were managers or owners of businesses.

The consultants were asked to respond to the initial task list inventory by performing the following activities:

- 1. Indicate whether any of the tasks listed were not, appropriate.
- 2. Add any additional tasks they believed were performed by the feed mill worker.
- 3. Make changes in the wording of tasks to help add clarity to the statements.

The comments from the ten consultants were pooled and revisions were made as needed.

As a result of the initial task inventory review process, 135 tasks were identified.

Worker Sample Selection

Since the specific duties and/tasks performed by the feed mill worker are related to the size and type of business where employed, an attempt was made to survey feed mill workers employed in various sizes and types of feed businesses. It was not possible to secure a list of the specific names and addresses of all incumbent workers in the state. Therefore, a sample of 75 retail feed businesses was obtained from the 1975 directory of the Ohio Grain, Feed, and Fertilizer Association, Inc. using a stratified random sampling approach. The strata used were type of business and geographical location.



Data Collection

. A packet of materials was sent to the owner or manager of the randomly-selected feed mills. The packet of materials included:

- 1. A cover letter from the Ohio Grain, Feed, and Fertilizer Association, Inc.
- 2. An employer questionnaire printed on blue.
- 3. An employee questionnaire printed on yellow.
- 4. A stamped and self-addressed return envelop.

The manager or owner was instructed to complete the employer questionnaire and to have a responsible feed mill worker complete the employee questionnaire. The manager or owner was instructed to collect the employee questionnaire and return both the employer and employee questionnaire in the stamped and self-addressed return envelope by the date specified in the cover letter.

A follow-up of non-respondents consisted of mailing a packet of materials two weeks after the initial mailing. The first follow-up consisted of a packet of materials identical to the initial packet except that a cover letter on project stationery replaced the cover letter on Ohio Grain, Feed, and Fertilizer Association, Inc. stationery.

A final follow-up of non-respondents was initiated four weeks after the initial mailing. A telephone contact by a project staff member was made with 50% of the non-respondents. The non-respondents were asked to complete the questionnaire and emphasis was placed on the importance of their response to the success of the project during the telephone conversation.

Data Analysis

The 42 questionnaires which were returned were checked for completeness and accuracy by the project staff. Information from the 39 usable responses was coded on Fortran coding sheets for key punching. In addition to coding appropriate respondent-background information, each specific task statement was coded as to whether it was performed (1 = Task performed by respondent; blank = Task not performed by respondent) and the level of importance of the task (3 = Essential; 2 = Useful; 1 = Not Important). The information was keypunched on IBM cards and verified by personnel at the Instruction and Research Computer Center at The Ohio State University.



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The data was analyzed using the SOUPAC computer program and the facilities of the Instruction and Research Computer Center. Consultant assistance for analyzing the data was provided by personnel at The Center for Vocational Education.

FINDINGS

Objectives of the study resulted in the compilation of basic sample background information, the determination of tasks performed by the feed mill worker, and the identification of tasks essential to successful performance as a feed mill worker.

Description of the Sample

Information regarding the performance of tasks and the importance of the tasks to successful employment as a feed mill worker was obtained from feed mill workers in various feed mills across Ohio.

Response to the Survey

A total of 75 questionnaires were mailed and 42 replies were received. This represented a 56% rate of return. The response to the questionnaire is summarized in TABLE I.

TABLE I EMPLOYEE RESPONSE TO THE QUESTIONNAIRE

•		И	Percent of All Employees In The Survey
Employees in Survey Total Returns Usable Returns Unusable Returns Nonrespondents	. •	75 42 39 3	100.0 56.0 52.0 4.0 44.0

Size of Business

Feed mill workers from various size retail feed businesses were included in the study. The number of full-time equivalent

(two one-half time feed mill workers equal one full-time equivalent) feed mill workers employed in the business was used is an index to assess the size of business where the feed mill worker was employed. Of the 42 questionnaires received, 39 included information regarding the size of the business. TABLE II summarizes the responses to the question, "How many full-time equivalent feed mill workers are employed in your business?" Twelve feed mill workers or 30.8% were employed in businesses employing three to five full-time equivalent feed mill workers. Twelve feed mill workers or 30.8% were employed in businesses employing six to ten full-time equivalent feed mili workers. Nine feed mill workers or 23.1% were employed in businesses employing one to two full-time equivalent feed mill workers. Thus, 84.7% of the feed mill workers were working in firms employing one to ten full-time equivalent feed mill workers. The total number of full-time equivalent feed mill workers employed in the business ranged from 1-22. The average number of full-time equivalent feed mill workers employed in the firms was six.

TABLE II
SIZE OF FEED MILL OR ELEVATOR

Number of Feed Mill Workers Employed in Firm	N	Percent of Respondents
1-3 3-5 6-10 11-15 16 or more	9 12 12 2 4	23.1 30.8 30.8 5.1 10.2
Total .	39	. 100.0

 \overline{X} number of feed mill workers in the firm = 6.0,

Total Work Experience

Feed mill workers with varying amounts of work experience in the feed industry were included in the study. TABLE III summarizes the responses to the question, "How many total years have you worked in the retail feed industry?" Eleven feed mill workers or 28.2% had from one to five total years of work experience in the feed industry. Eight feed mill workers or 20.5% had 26 or more years of work experience in the feed industry.

TABLE III
TOTAL AMOUNT OF WORK EXPERIENCE IN THE FEED INDUSTRY

Years .	•	N	ercent of espondents
1-5 6-10, 11-15 16-20 21-25 26 or more	3	11 8 5 3 4 8	28.2. 20.5 12.8 7.7 10.3 20.5
Total		39	100.0

x years in the industry - 13.5

Fight feed mill workers or 20.5% had from six to ten total years of work experience in the feed industry. The total years of work experience in the feed industry ranged from 1-40 years. Feed mill workers had an average of 15.5 years of total work experience in the feed industry.

Employment at Current Job

Feed mill workers in the survey had spent varying amounts of time at their present job. TABLE IV summarizes the responses to the question, "How many years have you worked at your present job?" Ten feed mill workers or 25.6% had worked at their present job from one to three years. Nine feed mill workers or 23.1% had worked at their present job from four to eight years. Six feed mill workers or 15.4% had worked at their present job from 13-18 years. The years of work at their present job ranged from 1-35 years. Feed mill workers had been employed at their present job an average of 12.6 years.

Preparation as a Feed Mill Worker

Feed mill workers obtained training for their job from various sources. TABLE V summarizes their responses to the question, "Where did you receive your training as a feed mill worker?"
Thirty-nine feed mill workers or 100% indicated they received training on-the-job. Five feed mill workers or 12.8% indicated they received training in a high school program.

TABLE IV. LENGTH OF TIME AT PRESENT JOB

ears	•	Ň		Percent of Respondents
1-3	e ·	10.	,	25.6
1 -8		9		23.1
9-12	,	5		12.8
3-18		. 6	-	15.4
9-25		4		10.3
or more	•		•	12.8
Total .		, 39		100.0

TABLE V
SOURCE OF TRAINING RECEIVED AS A FEED MILL WORKER

Source		N	Percent of All Employees In The Survey
On-The-Job High School Program Technical School Program Adult Education Program Other	•	39 , 5 1 1	100.0 12.8 2.6 2.6 10.3

Duty Areas of Work Performed by the Feed Mill Worker

The 135 tasks were grouped under 16 duty areas. Each respondent indicated whether he performed the specific task in his current position as a feed mill worker. The percentages of respondents performing each task were averaged for all tasks under each duty area. The mean percentage of incumbents who performed specific tasks in specified duty areas is presented in TABLE VI.

Duty areas of work in which 50% or more of the incumbent workers performed the tasks were:

- 1. Assisting in Performing Inventory Activities
- 2. Following Legal Rules and Regulations
- 3.1 Observing General Safety Precautions
- 4. Planning and Organizing Work
- 5. Selling Feeds and Other Merchandise
- 6. Receiving Feedstuffs and Supplies
- 7. Warehousing Feedstuffs and Supplies
- 8. Maintaining Feed Mill Equipment and Vehicles
- 9. Using Hand and Power Tools
- 10. Operating Feed Mill Equipment and Vehicles
- 11. Picking Up and Delivering Feed and Merchandise
- 12. Maintaining Feed Mill Buildings and Structures
- 13. Formulating Feeds for Livestock
- 14. Preparing Feed Mixtures in the Feed Mill

Duty Areas of Work Essential for Successful Performance as a Feed Mill Worker

A level of importance rating was obtained for each task. The respondent could rate the task as essential, useful, or not important for successful performance as a feed mill worker. A ranking of essential was assigned a numerical rating of "3", useful a numerical rating of "2", and not important a numerical rating of "1". The level of importance ratings for each task were averaged for all tasks under each duty area. The average level of importance ratings for the specific tasks in the specified duty areas are presented in TABLE VI.

Duty areas of work which received a 2.0 or higher level of importance rating by incumbent workers were:

- 1. Assisting in Performing Inventory Activities
- 2. Following Legal Rules and Regulations
- 3. Observing General Safety Precautions
- 4. Planning and Organizing Work
- 5. Selling Feeds and Other Merchandise
- 6. Receiving Feedstuffs and Supplies
- 7. Warehousing Feedstuffs and Supplies
- 8. Maintaining Feed Mill Equipment and Vehicles
- 9. Using Hand and Power Tools
- 10. Operating Feed Mill Equipment and Vehicles
- 11. Picking Up and Delivering Feed and Merchandise
- 12. Maintaining Feed Mill Buildings and Structures
- 13. Formulating Feeds for Livestock
- 14. Preparing Feed Mixtures in the Feed Mill
- 15. Accounting and Recording Activities

Percentage Performance and Level of Importance Ratings of Specific Tasks

The percentage performance by incumbent workers and the level of importance for each specific task is also presented in TABLE VI.

It is recommended that the results for each specific task be examined by educators and others who are developing educational programs to determine curriculum content for preparing feed mill workers. Specific tasks with a high level of performance and a high level of importance rating should be given more emphasis in the educational program than specific tasks with a low level of performance and a low level of importance rating.

TABLE VI

PERCENTAGE PERFORMANCE AND AVERAGE RATING OF IMPORTANCE* OF SPECIFIC TASKS

TASK STATEMENTS	Percent Performing	Average Level of Importance
Performing General Office Procedures		
File various forms and records	, 30. 71 74 20	1.6 2.3 2.2 1.3
Mean Rating	48.8	1.9
Accounting and Recording Activities		
Record maintenance information on feed mill equipment Record daily output of processed feed	51 30 . 35	2.1 1.8 2.0
Mean Rating	38.7	2.0
Assisting in Performing Inventory Activities		'
Assist in taking physical inventory	8 <u>7</u> 74	2.6
Mean Rating	80.5	2.5
Following Legal Rules and Regulations		· ,
Identify local feed mill policies regarding mixing feed additives	71	2.5
Mean Rating	71.0	2.5
Observing General Safety Precautions		
Follow safe work habits Identify potential safety hazards Store chemicals Use fire extinguishers Wear appropriate protective clothing Ventilate work areas Interpret information on labels	89 87 53 76 46 58 74	2.7 2.6 2.1 2.7 2.1 2.4 2.6

*Average rating of importance may range from 1-3 with 3 being highest



TABLE VI (Cont.)

PERCENTAGE PERFORMANCE AND AVERAGE RATING OF IMPORTANCE OF SPECIFIC TASKS

TÀSK STATEMENTS	Percent Performing	Average Level of Importance
Use proper lifting and carrying methods Store inflammable materials Wear appropriate work clothes Adjust safety shields Install safety devices Correct potential safety hazards Remove debris from work areas Use electrical cords and connections safely Identify safety zones around mill equipment	61 43 61 53 43 53 66 76 48	2.4 2.1 2.3 2.3 2.7 2.7
Mean Rating	61.7	2.4
Planning and Organizing Work Establish priorities on various jobs to be completed during the day	74 74.0	2.4
Selling Feeds and Other Merchandise Explain product information to customers	74 87	2.4 2.7
names available	66 64 55 30 52 20	2.2 2.1 2.3 1.5 2.1 1.4
Receiving Feedstuffs and Supplies	70.0	2.1
Check merchandise received against shipping slip	77 64	2.7
slips	72	2.6



PERCENTAGE PERFORMANCE AND AVERAGE RATING OF IMPORTANCE OF SPECIFIC TASKS

		C1 (0)
TASK STATEMENTS	Percent Performing	Average Level of Importance
Handle stock to avoid damage	75	2.7
Mean Rating	72.0	2.6
Warehousing Feedstuffs and Supplies Remove damaged grain from storage Control temperature in storage and grain drying areas Identify problems that might occur during storage Use proper types of storage facilities Determine where materials should be stored Clean storage areas Use rodent control and pest control materials in storage areas Label storage areas Store materials in order of use, season, and convenience Stack sacked materials Estimate amount of material in warehouse Determine amount of storage space needed to store	72 62 72 52 79 75 57 25 59 77 69	2.6 2.3 2.6 2.3 2.7 2.4 1.7 2.6 2.0
materials and feedstuffs	69 47 79 50	2.2 2.0 2.4 1.7
storage requirements	50 54 64 67 69	2.1 2.2 2.4 2.4
Mean Rating	62.4	2.3
Maintaining Feed Mill Equipment and Vehicles Clean debris from equipment Grease mill equipment Inflate tires Install and adjust belts Install and adjust chains Interpret maintenance instructions in operator's manuals	79 77 47 75 75 75	2.8 2.9 1.7 2.7 2.7 2.3
· · · · · · · · · · · · · · · · · · ·		

TABLE VI (Cont.)

PERCENTAGE PERFORMANCE AND AVERAGE RATING OF IMPORTANCE. OF SPECIFIC TASKS

Oil mill equipment	TASK STATEMENTS	Percent Performing	Average Level
Using Hand and Power Tools Identify tools	Oil mill equipment Replace damaged pulleys and sprockets Reset electrical motors Lubricate and clean electric motors	75 72 64 62	2.5 2.5 2.6 2.4 2.5
Identify tools Recondition tools, Select tools for specific jobs Store tools Use hand tools safely Mean Rating Operating Feed Mill Equipment and Vehicles Interpret equipment gauge readings Operate vehicles on public highways Adjust equipment safety shields Connect front end operated equipment Connect 3-point hitch equipment Hitch towed equipment Hitch towed equipment Identify potential equipment safety hazards Interpret safety shields and devices Interpret safety and operating instructions in operator's manuals Interpret safety symbols on equipment Operate mill equipment under work conditions Refuel tractors and trucks Use appropriate equipment for specific jobs 64 22 1 24 25 26 26 27 26 27 28 29 20 20 20 20 20 20 20 21 21 22 23 24 25 26 26 27 28 29 20 20 20 20 20 20 20 20 20	mean Rating	69.7	2.5
Operating Feed Mill Equipment and Vehicles Interpret equipment gauge readings	Identify tools	22 59 59	2.3 1.5 2.4 2.3 2.5
Operating Feed Mill Equipment and Vehicles Interpret equipment gauge readings	Mean Rating	53.2	2.2
Correct equipment safety hazards	Interpret equipment gauge readings Operate vehicles on public highways Adjust equipment safety shields Connect front end operated equipment Connect 3-point hitch equipment Hitch towed equipment Identify potential equipment safety hazards Install safety shields and devices Interpret safety and operating instructions in operator's manuals Interpret safety symbols on equipment Operate mill equipment under work conditions Refuel tractors and trucks Use appropriate equipment for specific jobs Operate feed preparation equipment at proper RPM Correct equipment safety hazards	72 52 64 25 19 42 50 50 50 54 75 62 67 57	2.3 2.3 2.6 1.3 1.9 2.4 2.3 2.9 2.5 2.6 2.2



PERCENTAGE PERFORMANCE AND AVERAGE RATING OF IMPORTANCE OF SPECIFIC TASKS

TASK STATEMENTS		Percent Performing	Average Level of Importance
Picking-up and Delivering Feed and Merchandise		• 0	
Complete delivery forms Select appropriate delivery route Load vehicles according to load limits Load and unload bagged feed and supplies Load and unload bulk truck Determine where the feed is to be unloaded at the farm Dump grain into dumping pit Identify grain to be loaded Estimate amount of grain by volume measure Weigh grain on truck		62 67 62 69 72 54 75 75 54.	2.1 2.5 2.6 2.4 2.7 2.7 1.9 2.2
Mean Rating	\dashv	65.4	2.3
Maintaining Feed Mill Buildings and Structures Apply paint Repair and hang doors Repair bracing in storage areas and bins Reset circuit breakers Replace electrical fuses Replace light bulbs Replace window panes Repair wood panels in storage areas and bins Repair grain drop spouts Replace safety screens and grates in dumping areas Remove trash from work areas Cut weeds and grass around mill buildings Clean truck scales		39 47 37 72 84 79 52 37 73 59 69	1.6 1.8 1.8 2.4 2.5 2.1 1.8 2.1 2.2 2.1 2.2 2.4
Mean Rating		57.7	2.1
Formulating Feeds for Livestock Classify feeds as roughages, grain concentrates, and additives	•	- 62 64 77	2.3 2.5 2.6 2.0



TABLE VI (Cont.)

PERCENTAGE PERFORMANCE AND AVERAGE RATING OF IMPORTANCE OF SPECIFIC TASKS

TASK STATEMENTS	Percent Performing	Average Level of Importance
Interpret information on feed tags	69 75	2.5 2.5
Mean Rating	67.7	2.4
Preparing Feed Mixtures in the Feed Mill		
Add ingredients to the feed mixture at the proper time and speed during preparation	64	2.6
order	59 69 73	2.3 7 2.6 2.6
Clean preparation equipment to remove traces of various feed additives used in previous order(s) Crimp grain Determine if ingredients are in appropriate form for the	62 39∫	2.4
feed mixture	67 75 75	2.5 2.5 2.5
Elevate needed ingredients to various preparation equipment Grind feeds	62 75	2.3
Interpret mixing and feed preparation directions from customers orders. Locate appropriate ingredients called for in order	77 72 69	2.8 2.6 2.6
Pellet feed	25 32	1.4
Mean Rating	62.2	2.4

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