

Dairy Worker

(Job Role)

Qualification Pack: Ref. Id. Agr/Q4102
Sector: Agriculture

Textbook for Class X



171009

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NCERT

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FOREWORD

The National Curriculum Framework (NCF)–2005 recommends bringing work and education into the domain of the curricula, infusing it in all areas of learning while giving it an identity of its own at relevant stages. It explains that work transforms knowledge into experience and generates important personal and social values, such as self-reliance, creativity and cooperation. Through work, one learns to find one's place in society. It is an educational activity with an inherent potential for inclusion. Therefore, an experience of involvement in productive work in an educational setting will make one appreciate the worth of social life and what is valued and appreciated in the society. Work involves interaction with material or people (mostly both), thus, creating a deeper comprehension and increased practical knowledge of natural substances and social relationships.

Through work and education, school knowledge can be easily linked to learners' life outside the school. This also makes a departure from the legacy of bookish learning and bridges the gap between the school, home, community and workplace. The NCF–2005 also emphasises on Vocational Education and Training (VET) for all those children, who wish to acquire additional skills and seek livelihood through vocational education after either discontinuing or completing school education. VET is expected to provide a 'preferred and dignified' choice rather than a terminal or last resort option.

As a follow-up of this, NCERT has attempted to infuse work across subject areas and contributed in the development of the National Skill Qualification Framework (NSQF) for the country, which was notified on 27 December 2013. It is a quality assurance framework that organises all qualifications according to the levels of knowledge, skills and attitude. These levels, graded from one to ten, are defined in terms of learning outcomes, which the learners must possess regardless of whether they are obtained through formal, non-formal or informal learning. The NSQF sets common principles and guidelines for a nationally recognised qualification system, covering schools, vocational education and training institutions, technical education institutions, colleges, and universities.

It is under this backdrop that Pandit Sunderlal Sharma Central Institute of Vocational Education (PSSCIVE), Bhopal, a constituent of NCERT, has developed learning outcomes based modular curricula for vocational subjects from Classes IX to XII. This has been developed under the Centrally Sponsored Scheme of Vocationalisation of Secondary and Higher Secondary Education of the Ministry of Education, erstwhile Ministry of Human Resource Development.

This textbook has been developed as per the learning outcomes based curriculum, keeping in view the National Occupational Standards (NOSs) for the job role and to promote experiential learning related to the vocation. This will enable the students to acquire necessary skills, knowledge and attitude.

I acknowledge the contribution of the development team, reviewers and all institutions and organisations, which have supported in the development of this textbook. NCERT welcomes suggestions from students, teachers and parents, which would help us to further improve the quality of the material in subsequent editions.

New Delhi
September 2020

HRUSHIKESH SENAPATY
Director
National Council of Educational
Research and Training

ABOUT THE TEXTBOOK

A Dairy Worker performs various activities, such as caring, feeding and milking the livestock in a dairy farm, which consumes approximately two-third of the person's work time daily. Taking care of dairy animals involves keeping the animal areas clean, and free from manure and other contaminating material. The job is to be performed efficiently in order to promote clean milk production, and animal well-being and comfort. The Dairy Worker is expected to work independently and must have the ability to make operational decisions pertaining to one's area of work. The person must have clarity and be result oriented. One must also be able to demonstrate skills to use various tools at the dairy farm.

The succession course from the job role of Dairy Worker is that of Dairy Farmer. A Dairy Farmer is responsible for profitably managing various activities in the dairy farm like production and marketing of milk and milk products, and maintaining the health and productivity of cattle. The person is expected to demonstrate the ability to make various strategic and operational decisions to ensure profitability of the farm.

A comparison of the National Occupational Standards (NOSs) of the two job roles shows that seven out of eight NOSs are similar. Therefore, a conscious effort has been made in the textbooks of Dairy Worker to impart only elementary knowledge to students on the topics covered.

The textbook covers key aspects on animal health and safety, milk production and hygiene, and animal welfare legislations. The practices recommended in the textbook have been drawn from practical experiences at the Nanaji Deshmukh Veterinary Science University, Jabalpur (Madhya Pradesh), and Department of Livestock Production and Management at the Indian Veterinary Research Institute, Izatnagar (Uttar Pradesh).

The students are encouraged to select and implement guidelines relevant to their situation. The textbook has been developed with the contributions of subject and industry experts, and academicians. Care has been taken to align the content of the textbook with the National Occupational Standards (NOSs) for the job role of a Dairy Worker. This will enable the students acquire knowledge and skills as per the performance criteria mentioned in the Qualification Pack (QP) by the Agriculture Skill Council. The NOSs for the job role of a Dairy Worker covered in the textbook are as follows.

- AGR/ N4103: providing feed and water to livestock
- AGR/ N4104: maintaining the healthy performance of livestock
- AGR/N4105: performing hand and machine milking
- AGR/N9903: maintaining health and safety standards at the workplace

Besides these NOSs, the importance of maintaining records in a dairy farm is explained in the textbook as the Dairy Worker is expected to maintain various types of record on a regular basis.

The textbook is divided into six Units. In Unit 1, common infectious and non-infectious diseases, parasitic infections and other disorders that affect dairy animals are discussed. Unit 2 talks about guidelines for the prevention of diseases, as well as, vaccination in dairy animals. The topic of 'One Health' is also discussed in this Unit. The different pre-milking and post-milking activities required for clean milk production are detailed in Unit 3. Unit 4 discusses the various types of record maintained in a dairy farm. Unit 5 describes measures for maintaining hygiene and biosecurity at the dairy farm along with disposal of farm wastes. Unit 6 impresses upon students the need for having compassion towards animals and throws an insight into the existing legal welfare provisions for animals.

We hope this textbook will serve as a useful resource material for students who opt for the job role of a Dairy Worker. Suggestions for improving the textbook are welcome.

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The photographs used in the textbook have been selected with care and diligence for providing a better understanding to students. Care has been taken not to violate any copyright issue. The images are meant for educational purpose only and are being provided for the personal use of the students and teachers.

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