

National Occupational Standards

Agri-extension in DRE Applications & Financing

Unit Code: AGR/N7620

Version: 1.0

NSQF Level: 4

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National Occupational Standards

Description

This OS unit is about extension activities involved in the promotion of Decentralised Renewable Energy (DRE) applications used in agriculture & allied sector.

Scope

The scope covers the following :

- Assess the demand for DRE Livelihood Applications
- Promote DRE Livelihood Applications
- Facilitate financing for DRE Applications
- Document the impact of adoption of DRE Applications

Elements and Performance Criteria

Assess the demand for DRE Livelihood Applications

To be competent, the user/individual on the job must be able to:

- PC1.** Conduct market research to identify the available DRE livelihood applications and their adoption rate
- PC2.** Assess the potential of deployment of DRE livelihood applications across various sectors in the region
- PC3.** Coordinate with different government and private organizations working in the DRE applications
- PC4.** Map the needs of beneficiaries with the relevant DRE applications

Promote DRE Livelihood Applications

To be competent, the user/individual on the job must be able to:

- PC5.** Spread awareness about the appropriate DRE technologies and related services amongst the relevant stakeholders for livelihood promotion and value enhancement
- PC6.** Identify the potential beneficiaries for the DRE livelihood applications
- PC7.** develop relevant communication materials for awareness promotion
- PC8.** Conduct field demonstration of DRE livelihood applications
- PC9.** Encourage participation of the beneficiaries and convince them for adopting DRE applications
- PC10.** Map the technology service providers and help the end users access the best in-class technology / service providers
- PC11.** Provide skill and capacity building support to identified beneficiaries in operations & maintenance and installation/ fabrication
- PC12.** Provide handholding support to the end-users throughout the adoption cycle
- PC13.** Develop mitigation strategies for the potential risks in the adoption cycle

Facilitate financing for DRE Applications

To be competent, the user/individual on the job must be able to:

- PC14.** Analyse various Government schemes for their integration with DRE livelihood applications and their adoption
- PC15.** Identify the financial institutions and other organizations supporting the promotion and adoption of DRE applications

National Occupational Standards

PC16. Sensitize financial Institutions towards lending to DRE enterprises and end users

PC17. Identify innovative financing models for scaling up the adoption of the applications

PC18. facilitate easy access to credit for entrepreneurs and end-users by linking them to existing financing schemes or through new innovative financial instruments

Document the impact of adoption of DRE Applications

To be competent, the user/individual on the job must be able to:

PC19. Develop a strong monitoring and evaluation framework for assessing the sustainability performance of DRE applications

PC20. Assess the impact of DRE applications on diverse population including marginalized groups and women

PC21. prepare the impact report and suggest recommendations to scale-up the adoption rate

PC22. Document success stories and broadcast in the print and digital media

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. Different types of Renewable Energy (RE)

KU2. Meaning of Decentralised Renewable Energy (DRE)

KU3. Advantages of DRE Systems

KU4. Need for Decentralised Renewable Energy Based Livelihoods

KU5. State of the DRE sector in India

KU6. DRE Powered Applications in agriculture

KU7. DRE Powered applications in animal husbandry & fisheries sector

KU8. DRE powered applications in non-farm sector

KU9. various DRE technology providers

KU10. business models of DRE livelihood applications in agriculture, agro-processing, dairy, poultry, fisheries, tailoring, etc.

KU11. Method of Demand Assessment

KU12. Method of developing communication materials- leaflets, flyers, etc.

KU13. Field demonstration methods for DRE applications

KU14. Role of Ministry of New and Renewable Energy (MNRE) in promoting DRE Livelihood applications

KU15. Various non-Government interventions to promote DRE livelihood applications

KU16. List of Schemes of Ministry of New and Renewable Energy (MNRE) and various other Ministries and Departments pertaining to DRE Applications

KU17. online portals to access the DRE appliances details

KU18. Financing needs for DRE applications

KU19. Challenges of end-user financing DRE Appliances

KU20. Policies to support end-user financing for solar-powered livelihoods

KU21. Method of impact evaluation of adoption of DRE Applications

KU22. Method of report writing

National Occupational Standards

KU23. Use of social and other digital media for information dissemination

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** maintain work-related notes and records
- GS2.** read the relevant literature to get the latest updates about the field of work
- GS3.** listen attentively to understand the information being shared
- GS4.** communicate politely and professionally
- GS5.** plan and prioritize tasks to ensure timely completion
- GS6.** take quick decisions to deal with workplace emergencies/ accidents
- GS7.** identify possible disruptions to work and take appropriate preventive measures

National Occupational Standards

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Assess the demand for DRE Livelihood Applications</i>	5	5	-	10
PC1. Conduct market research to identify the available DRE livelihood applications and their adoption rate	-	-	-	-
PC2. Assess the potential of deployment of DRE livelihood applications across various sectors in the region	-	-	-	-
PC3. Coordinate with different government and private organizations working in the DRE applications	-	-	-	-
PC4. Map the needs of beneficiaries with the relevant DRE applications	-	-	-	-
<i>Promote DRE Livelihood Applications</i>	10	15	-	10
PC5. Spread awareness about the appropriate DRE technologies and related services amongst the relevant stakeholders for livelihood promotion and value enhancement	-	-	-	-
PC6. Identify the potential beneficiaries for the DRE livelihood applications	-	-	-	-
PC7. develop relevant communication materials for awareness promotion	-	-	-	-
PC8. Conduct field demonstration of DRE livelihood applications	-	-	-	-
PC9. Encourage participation of the beneficiaries and convince them for adopting DRE applications	-	-	-	-
PC10. Map the technology service providers and help the end users access the best in-class technology / service providers	-	-	-	-
PC11. Provide skill and capacity building support to identified beneficiaries in operations & maintenance and installation/ fabrication	-	-	-	-

National Occupational Standards

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. Provide handholding support to the end-users throughout the adoption cycle	-	-	-	-
PC13. Develop mitigation strategies for the potential risks in the adoption cycle	-	-	-	-
<i>Facilitate financing for DRE Applications</i>	10	10	-	4
PC14. Analyse various Government schemes for their integration with DRE livelihood applications and their adoption	-	-	-	-
PC15. Identify the financial institutions and other organizations supporting the promotion and adoption of DRE applications	-	-	-	-
PC16. Sensitize financial Institutions towards lending to DRE enterprises and end users	-	-	-	-
PC17. Identify innovative financing models for scaling up the adoption of the applications	-	-	-	-
PC18. facilitate easy access to credit for entrepreneurs and end-users by linking them to existing financing schemes or through new innovative financial instruments	-	-	-	-
<i>Document the impact of adoption of DRE Applications</i>	5	10	-	5
PC19. Develop a strong monitoring and evaluation framework for assessing the sustainability performance of DRE applications	-	-	-	-
PC20. Assess the impact of DRE applications on diverse population including marginalized groups and women	-	-	-	-
PC21. prepare the impact report and suggest recommendations to scale-up the adoption rate	-	-	-	-
PC22. Document success stories and broadcast in the print and digital media	-	-	-	-
NOS Total	30	40	-	30

National Occupational Standards

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N7620
NOS Name	Agri-extension in DRE Applications & Financing
Sector	Agriculture
Sub-Sector	
Occupation	Information Management
NSQF Level	4
Credits	1.25
Minimum Job Entry Age	NA
Minimum Educational Qualification & Experience	<p>12th grade Pass (or equivalent) OR Completed 2nd year of the 3-year diploma after 10 (in Agriculture/Horticulture/Forestry/Agriculture Engineering/Veterinary Sciences/Animal Husbandry/Dairy Technology) OR Previous relevant Qualification of NSQF Level (3.5) OR Previous relevant Qualification of NSQF Level (3) with 3 Years of experience Agriculture and allied sectors</p>
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024
Reference code on NQR	NG-04-AG-02548-2024-V1-ASCI
NQR Version	1.0
CCN Category	2