



## National Occupational Standards

# Agri-extension in DRE Applications & Financing

Unit Code: AGR/N7620

Version: 1.0

NSQF Level: 4

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### 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

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- 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

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**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

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### Assessment Criteria

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

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

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### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	AGR/N7620
<b>NOS Name</b>	Agri-extension in DRE Applications & Financing
<b>Sector</b>	Agriculture
<b>Sub-Sector</b>	
<b>Occupation</b>	Information Management
<b>NSQF Level</b>	4
<b>Credits</b>	1.25
<b>Minimum Educational Qualification &amp; Experience</b>	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/Diary 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
<b>Version</b>	1.0
<b>Last Reviewed Date</b>	30/04/2024
<b>Next Review Date</b>	30/04/2027
<b>NSQC Clearance Date</b>	30/04/2024
<b>Reference code on NQR</b>	NG-04-AG-02548-2024-V1-ASCI
<b>NQR Version</b>	1.0
<b>CCN Category</b>	2