**Finalized Training Curriculum and Modified Training Material**

**Purpose of Training**

The purpose of the training workshop is to train participants in issues of the environment, community, health and safety, business development and quarry management. Issues relating to gender in mining will also be articulated. The participants are considered potential trainers and therefore the workshop is designed to achieve this outcome.

Participants from the public and private sectors, regulatory agencies, NGOs and quarry operator are targeted with special consideration given to women in quarrying in spite of their general under representation on the Mining industry landscape of Jamaica.

The workshop aims to equip participants with practical knowledge on environment, community, Health and Safety issues relating to Development Minerals throughout full mining lifecycle: exploration, mining, processing and decommissioning, (including upstream and downstream economic linkages).

The delivery mode integrates a blend of technical presentations, practical exercises, knowledge sharing, open discussions, role plays and guest speakers. The training is complemented by field trip to give participants the opportunity to observe good and bad practice.

**Training Outcomes**

The workshop is designed to achieve the following outcomes:

1. The participants will acquire sufficient knowledge to allow them to function as trainers.
2. The participants are sufficiently familiar with the training material and delivery methods to be able replicate the training in their locales.
3. The emergent issues of Development Minerals and Low Value Minerals and Materials are entrenched in the minds of participants.
4. The role of women in development Minerals sector is better appreciated

**Testing and Evaluation**

In lieu of traditional approaches, the effectiveness of the training workshop will be measured by gauging the quality of presentations delivered by the participants during the scheduled question and answer sessions. Additionally, the quality of the interactive discussions during the Question and Answer sections of each session will be observed. The preparation of the Return to Work plans is scheduled Day 4 and participants are expected to present of the progress of their RWPs. In the medium to long term however the impact of the training can be measured against improvements in operational practices.

**Workshop Outline and Objectives:** The material to be used and shared with the participants during the workshop is a combination of those developed by the ACP-EU Development Minerals programme and those developed by the training consultant and guest presenters. A summary of the curriculum and an outline of the Agenda are presented below:

**Module 0- Development Minerals**

Objective: This module introducse the participants to the two main emergent themes in mining

Expected Results: Participants should gain familiarity with these concepts

**Module 1-Overview of Industrial Minerals (developed by presenter L. Neufville)**

Objectives: The main objective of this module is to introduce the concepts of Low Value Minerals and Materials and Development Minerals.

Expected Result: At the end of the module, all participants should have a basic understanding of the differences between industrial minerals, construction materials, dimension stones and semi-precious stones; and high value metals.

**Module 2-Overview of Quarrying Techniques**

Objective: The main objective of this module is to introduce the various quarrying techniques applicable to the Jamaican Scenario.

Expected Results: At the end of the module, all participants should have a basic understanding of the different quarrying techniques applicable to minerals and materials which can be economically exploited.

**Module 3- Environmental Impact**

Objectives: The main objective of this module is to introduce the range of environmental impacts associated with Development Minerals at all stages of the mine life cycle.

Expected Results: Participants recognise the environmental impacts associated with different commodities and the different stages of the mine life cycle, and the appropriate mitigation, avoidance and enhancement measures.

**Module 4- Occupational Health and Safety (developed by presenter Paul Henry)**

Objectives: The main objective of this module is to raise awareness and knowledge of occupational and community health and safety issues across the lifecycle of the mining of Development Minerals. The module introduces the concepts of hazards, risks and controls as a means to address health and safety issues.

Expected Results: At the end of the module, all participants are able to identify and discuss workplace and community health and safety issues with an increased ability to critically analyse vulnerabilities and risks associated with mineral operations for workers and host communities.

**Module 5-Community Relations**

Objectives: The main objective of this module is to introduce the basic principles and practices for effective community relations and to consider the unique circumstances of small-scale mining and quarrying and the applicability of various approaches.

Expected Results: Participants have good mastery of best practice in community relations, dialogue and rights

**Module 6- Local Business and Value Chain**

Objective: The main objective of this module is to introduce the concepts of domestic economic linkages and value chains and consider how these linkages can be maximized in the Development Minerals sector for the benefit of businesses and employees at local and national scales.

Expected Results: Participants are knowledgeable about the importance of developing horizontal and vertical economic linkages, building business resilience, and integrating businesses into the local economy.

Participants are aware of the most easily achievable opportunities at the lower end of the value chain (e.g. the construction industry or the provision of services) where the opportunities require limited capital and skills.

**Module 7-Policy and Regulations**

Objective: Have stakeholders from the regulatory agencies to discuss recent amendments to the quarry regulations and highlight other weaknesses to the items of statute

Expected Results

Participants have gained knowledge on the Quarry Controls Act and Regulations.

**Module: Guest Presentation on Gender mainstreaming in the mining industry developed by Dr C. Archer**

Objective: This module set out to address the fundamental issues relating gender in the Minerals Industry and to highlight the marginalisation and other challenges experienced by women in quarrying

Expected Results: At the end of the presentation it is anticipated that participants will be aware of these issues and are mindful of the general gross under representation of women in this industry

**Workshop Schedule**

**TRAINING OF TRAINERS WORKSHOP ON ENVIRONMENT COMMUNITY HEALTH & SAFETY IN THE DEVELOPMENT MINERALS SECTOR, Kingston, Jamaica, April 19-20th; April 27-28thh 2017**

**AGENDA**

|  |  |  |
| --- | --- | --- |
|  | Day 1 |  |
| TIME | ACTIVITY | PRESENTER |
| 8:30- 9:15 | Registration | UNDP |
| 9:15- 9:30 | Opening Remarks | Clinton Thompson- Commissioner of Mines |
| 9:30- 9:45 | ACP-EU Development Minerals Programme Overview by Country Co-ordinator, Development Minerals Programme, UNDP including Short Programme Video | Mrs. Ruth Clarke |
| 9 :45 -10-00 | Introduction of Participants | Laurence Neufville |
| 10-00 – 10:15 | Health Break |  |
| 10:15- 11:45 | Session 1 -The State of Developments Minerals Subsector in Jamaica | Guest Presenter- Dr. Oral Rainford – Principal Director , Ministry of Transport and Mining |
|  | Development Minerals at a Glance | Laurence Neufville |
| 11:45-100 | Session 2- Overview of Industrial Minerals, Construction materials, dimension Stones and semi-precious stones | Laurence Neufville |
|  |  |  |
| 1:00- 200 | Lunch |  |
| 2:00-3:30 | Session 3- Overview of Quarrying Techniques | Laurence Neufville |
| 3:30 -3:45 | Health Break |  |
| 3:45 -4:15 | Session 4- Knowledge sharing | Participants |
| 4 :15 -4:45 | Presentations | Participants |
| 4:45 -5:00 | Day 1 Reflections | Laurence Neufville |

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|  | Day 2 |  |
| TIME | ACTIVITY | PRESENTER |
| 9:00-10:30 | Session 5- Gender in Development Minerals | Guest presenter- Dr. Carol Archer -Associate Professor, University of Technology, Jamaica |
| 10:30- 11:30 | Knowledge Sharing | Participants |
| 11-30 – 11:45 | Health Break |  |
| 11:45- 1:00 | Session 6 -Environmental Impact | Laurence Neufville |
| 1:00- 200 | Lunch |  |
| 2:00-3:30 | Session 7 : Occupational Health and safety | Guest Presenter-Paul Henry –Manager, safety and Standards , Ministry of National Security |
| 3:30 -4:00 | Knowledge sharing | Participants |
| 4 :00 -4:30 | Presentation | Participants |
| 4:30 -5:00 | Day 2 Reflections | Laurence Neufville |

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|  | Day 3 |  |
| TIME | ACTIVITY | PRESENTER |
| 9:00 AM | Depart from Jampro | Laurence Neufville/MGD |
| 9:45 -12:00 | Site visit to Cane River Quarry Zone | Laurence Neufville/MGD |
| 12-00 – 12:45 | Travel to Yallahs Quarry Zone | Laurence Neufville/MGD |
| 12:45- 1:30 | Lunch |  |
| 1:30- 2:30 | Site Visit to small Sand and gravel operators | Laurence Neufville/MGD |
| 3:00-4:30 | Site Visit to large operator Jamaica Aggregates) | Laurence Neufville/MGD |
| 4:30 -6:00 | Return to Jampro | Laurence Neufville/MGD |

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|  | Day 4 |  |
| TIME | ACTIVITY | PRESENTER |
| 9:00-10:30 | Session 8- Community Relations | Laurence Neufville |
| 10:30- 11:30 | Local Business and Value Chain | Laurence Neufville |
| 11-30 – 11:45 | Health Break |  |
| 11:45- 1:00 | Session 9 – Policy and Regulation | Laurence Neufville |
| 1:00- 200 | Lunch |  |
| 2:00-3:30 | Session 10: Return to work plans (RWP) | Participants |
| 3:30 -4:00 | Presentation of draft RWP | Participants |
| 4 :00 -4:30 | Presentation of Certificates and Workshop Evaluation | Participants |
| 4:30 -5:00 | Day 4 Reflections | Laurence Neufville |