



## 2018 DIAMOND VALUATION TRAINING REPORT ORGANIZED BY DDI IN PARTNERSHIP WITH AWDC

### INTRODUCTION

From November 5 to November 16, 2018, the Diamond Development Initiative (DDI) in partnership with the Antwerp World Diamond Center (AWDC) organized a training on Diamond valuation for French-speaking countries who are members of the Kimberley Process (KP). This training was an intermediary level, given that participants had already acquired beginner level skills and knowledge, either through DDI, in 2017 in Antwerp, or elsewhere. The training which was as part of KP technical assistance to KP member countries is aimed at providing them with tools and knowledge to improve their capabilities in the implementation of the KPCS. For efficient management of the cohort, the training program is typically open to 10 participants. This year, the number of participants was only seven (7) from the following countries Cameroon (3), Côte d'Ivoire (3) and Republic of Congo (1). Of these, four (4) participants had taken part in the 2017 training and three (3) had trained elsewhere. All trainees are actively involved in diamond valuation processes in their respective country offices.

### OBJECTIVES OF THE COURSE

The intermediary level offered to the participants had as objective to provide participants with advanced tools and knowledge regarding diamond valuation to better fulfill their KPCS roles.

The course covered valuation techniques such as price reverse engineering, deriving the price of rough diamonds from the polished; calculating the yield and eventual value of rough diamonds with and without rough diamond price lists; and use of technology and equipment for valuation.

An additional focus this year was on distinguishing diamonds from simulants and laboratory-grown stones called synthetic diamonds.

Participants received training on advance diamond valuation techniques in the following knowledge areas:

- ROM, sorting techniques,
- Price calculation of single stones
- Different price parameters and use of computer and OGI scanning software to determine the polished price
- Practice planning manual and correction with PC
- Price calculations of parcels
- Evaluation of fancy shapes
- Practice evaluation fancy shapes
- Polariscope for stress
- UV lamp for fluorescence
- Diamond Types and Treatments
- Practice sorting & planning



Figure 1- Supervised exercise by the trainer

At the beginning of the training participants were asked by the trainer to express their expectation from the training. The goal was to harmonize and align their expectations to the goals of the training for a better outcome.

### Expectations from the participants

- Want more knowledge on synthetic diamonds
- Calculation of price on large stones of 5 carats and above
- Calculation of parcels
- Knowledge of price lists
- Advanced sorting technics
- Visit to diamond bourses
- Visit a polishing house
- Evaluation of fancy stones

### PARTICIPANTS

Mohamad MOCTAR	Cameroon
Fale Sedrine TANGWA	Cameroon
Foe Mbang Myriam A. Epse N. ZOGO	Cameroon
Julie Héliane Danielle SERVICE	Congo (Brazzaville)
Emmanuel Richmond Homangnefaih	Côte d’Ivoire
Caroline Naro OUAYOU	Côte d’Ivoire
Yao Sylvain KOUASSI	Côte d’Ivoire

### COURSE OUTLINE

The course was designed for 10 days with intensive theoretical work comprising of 30% of the time, supervised practice exercises 50% of the time, group work and discussion 10% of the time and visit major stakeholders for 10%. This methodology gave the participants the opportunity to balance their theoretical knowledge with practical knowledge and enhance their comprehension of the value-added process of diamonds supply chain of from rough through polish and commercialization. The table below shows the training plan for the entire program.



Figure 2- Visit to a diamond planning office

## Training plan Week I and II

Monday	Tuesday	Wednesday	Thursday	Friday
<ul style="list-style-type: none"> <li>• Introduction + course outline</li> <li>• Security rules</li> <li>• Diamond Origin</li> <li>• Explanation of 4 C's</li> <li>• Explanation Rapaport list</li> </ul>	<ul style="list-style-type: none"> <li>• Sorting in theory</li> <li>• Shapes: sawables, makeable, rest</li> </ul>	<ul style="list-style-type: none"> <li>• Colour in diamond</li> <li>• Sorting on colour</li> </ul>	<ul style="list-style-type: none"> <li>• Price calculation single stones</li> <li>• Different price parameters</li> </ul>	<ul style="list-style-type: none"> <li>• Use of computer and OGI scanning software</li> <li>• Practice planning manual and correction with PC</li> </ul>
<ul style="list-style-type: none"> <li>• Sorting GEM/IND</li> <li>• Practice sorting</li> </ul>	<ul style="list-style-type: none"> <li>• Practice sorting Z/Mb/Rest</li> </ul>	<ul style="list-style-type: none"> <li>• Clarity</li> <li>• Sorting on clarity</li> <li>• Subdivision Z1, Z2,... MB1, MB2, ...</li> </ul>	<ul style="list-style-type: none"> <li>• Practice sorting and evaluation</li> </ul>	
<ul style="list-style-type: none"> <li>• Morphology &amp; crystallography</li> <li>• Scientific (cubic system) vs practical (Z) and typomorphism</li> <li>• Sawing and cleaving directions</li> </ul>	<ul style="list-style-type: none"> <li>• Explanation Yield and diameter measuring in Sawables</li> <li>• Practice yield calculation</li> </ul>	<ul style="list-style-type: none"> <li>• Practice sorting shapes + colour + clarity</li> <li>• Practice yield calculation</li> <li>• Practice: taking out Z</li> </ul>	<ul style="list-style-type: none"> <li>• Practice sorting and evaluation</li> </ul>	Practice sorting and evaluation
Monday	Tuesday	Wednesday	Thursday	Friday
<ul style="list-style-type: none"> <li>• Price calculations of parcels: combining procedures seen in the first week</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluation of fancy shapes</li> <li>• Practice evaluation FS</li> </ul>	<ul style="list-style-type: none"> <li>• Diamond Types and Treatments</li> <li>• Practice sorting &amp; planning</li> </ul>	<ul style="list-style-type: none"> <li>• Imitations and synthetics</li> </ul>	Exam/test
<ul style="list-style-type: none"> <li>• Practice price calculations</li> </ul>	<ul style="list-style-type: none"> <li>• Polariscope for stress</li> <li>• UV lamp for fluorescence</li> </ul>	<ul style="list-style-type: none"> <li>• Practice sorting &amp; planning</li> </ul>	<ul style="list-style-type: none"> <li>• Practice sorting &amp; planning</li> </ul>	
<ul style="list-style-type: none"> <li>• Practice</li> </ul>	<ul style="list-style-type: none"> <li>• Explanation Fancy Colours</li> <li>• Practice Planning</li> </ul>	<ul style="list-style-type: none"> <li>• Visit to Polishing Factory and professional planner</li> <li>• Practice sorting &amp; planning</li> </ul>	<ul style="list-style-type: none"> <li>• Practice sorting &amp; planning</li> </ul>	Reception

At the end of the first week, participants were introduced to the use of a computer and OGI scanning software for planning and assessing the value of rough diamonds from polished. There were two demonstration visits where the participants were treated to live demonstration on the planning process and cutting parameters to determine the best output from polished diamonds.

During the second week of the training, more time was dedicated to supervised practical sessions, group exercises and practices, introduction to new diamond valuation tools and visits to diamond bourses, government diamond offices, visit the HMD and diamond polishing consultant.



**Figure 2- Demonstration on the use of Scanox software for planning.**

## RESULTS

After two weeks of intensive theoretical and practical training, the trainer evaluated that the participants had acquired new and improved techniques of diamond valuation in the following knowledge areas;

- Determination of sorting category: placing a rough diamond in the correct class
- Determination of Yield: measuring the expected diameter of the largest polished diamond in a rough diamond and calculating the corresponding yield
- Having an understanding of the rough diamond price parameters
- How to detect synthetics and natural diamonds using the N3- centre
- Working with coloured stones and origin of coloured stones
- Treatment of stones using radioactive mechanism type X



**Figure 3 - left to right:**  
**Ludo Van Campenhout**, Mayor of Antwerp;  
**Caroline Ouayou**, trainee from Côte d'Ivoire; and  
**Ari Epstein**, CEO of AWDC.

## FEEDBACK FROM PARTICIPANTS

At the end of the training, participants participated in a post evaluation of the program. The evaluation covered preparation, delivery and relevancy and importance of the training to their careers. Based on the feedback, 100% of the participants expressed overall satisfaction on the content of the training and the method of delivery.

100% of the participant indicated that their expectations were met, they were satisfied with the content of the training, the training was adapted to their personal objective and they learned many new methods that will improve their professional performance. Participants indicated that they acquired the following new competencies, calculation of yields, a better understanding of the notion of synthetic diamonds, calculation of the price of polished diamonds from rough diamonds, the function of the diamond bourses, use of Scanox digital equipment for polish planning.

One of the students, Foe Mbang Myriam Angele from Cameroon participating for the first time, works as an administrator and diamond valuator at the government's diamond export office in Yaoundé. She said the course will help improve her job performance but will also be a big gain for her country. She believed she gained enhanced tool and knowledge from that training that will help her training other trainers in her home country. Even though she expressed frustration with the cost of traveling and the challenges of visa application, she was grateful for the effort and resources put in place for the program by AWDC and DDI.

A closing ceremony was organized to honor the participants in the presence of the Mayor of Antwerp, the CEO of AWDC, the Chair of the DDI Board of Directors, and the Deputy executive director of DDI. In attendance as well were AWDC staff, Diplomatic representatives from Cameroon, Côte d'Ivoire and Gabon and the KP focal point for Cameroon.



**Figure 4- The seven graduates and the trainer, Wouter Vansteelant**

During the closing ceremony, the CEO of AWDC Mr. Ari Epstein said that offering the valuation program fits into AWDC's "wider vision and commitment of information and knowledge-sharing with African diamond-producing countries for the success of the KP. He said, AWDC was proud to host this initiative because the success and sustainability of the KP depended on enhanced knowledge and capacity at the grassroots level, as well as strong governance to ensure higher income for producing countries from their stones. The ceremony concluded with Mr. Ludo Van Campenhout, the Mayor of Antwerp handing certificates to participants.

## **RECOMMENDATIONS**

- The intermediate diamond valuation training was only offered to Francophone countries. Based on the huge demand for this training, there is a need to immediately organize the same training for Anglophone countries.
- DDI and AWDC should develop a detailed valuation curriculum depicting all the level of competency from beginners, intermediary, advanced and Expert levels of valuation.
- DDI should explore options of organizing beginner-level training in home countries while intermediate and advanced training can be organized in centers with required logistics and materials.

## ANNEX

### Training Evaluation Questionnaire

The presented scores are the average scores for all seven (7) participants:

	Bad	Below average	Average	Good	Very good
Communication of objectives and program before training					5
Organization and planning of the training					5
Group composition (number of participants, homogeneous levels)					5
Adequacy of the material resources made available during training				4	
Importance of the training program to my career					5
Clarity of training content					5
Quality of the teaching aids					5
Facilitation of the training by the speaker (s)					5
Progression of the training (duration, rhythm, theory / practice alternation)					5
Did the training meet your initial expectations?					5
Do you think you achieved the objectives established during the training?					5
Do you feel that the training was in line with the professional challenges of the sector?					5
Would you recommend this training to a person doing the same job as you?					5