

Diamonds Cutting and Polishing

Syllabus

№	Module	Hours			Type of training	Credits	Teaching language	Notes
		total	contact	independent study				
1	Diamonds Cutting and Polishing	72	36	36	Practical training	2	English	

Instructor: Galina Evstafyeva, Senior Lecturer of the Department of Gems and Precious Metals Processing Technology of North-Eastern Federal University

Location: Lapidary Laboratory of NEFU, 50 let SA Str., 5.

Course objectives: During the course, the student will receive practical skills for cutting of diamonds, starting from planning and marking of rough diamonds up to final polishing.

Course outline:

#	Assignments for practical training	Content	Hours
1	Planning and marking	Study the morphological features of each crystal; compare the cost of rough diamond and jewelry diamonds, the price of jewelry diamonds that can come out of it.	4
2	Sawing	Cut the rough diamond into separate pieces	4
3	Rough polishing of diamond	Grinding of four facets, preparation of diamond to bruiting	6
4	Bruiting	In the process of bruiting the diamond is given the shape of a future brilliant	4
5	Final polishing	Polishing all 16 main facets, 32 girdle facets, 8 star facets and polishing of table.	16
6	Final inspection	The final stage involves thoroughly cleaning the diamond in acids, and control of the quality of the brilliant on the Sarin program, examining the diamond to see whether it meets the quality standards of the manufacturer	2

<p>Assessment (оценивание)</p> <p>95 – 100 points – A</p> <p>85 – 94 points – B</p> <p>75 – 84 points – C</p> <p>65 – 74 points – D</p> <p>55 – 64 points – E</p> <p>45 – 54 points – FX</p> <p>Less than 44 points – F</p>	<p>Readings samples:</p> <ol style="list-style-type: none"> 1. Tolkowsky, Marcel (1919). Diamond Design: A Study of the Reflection and Refraction of Light in a Diamond. London: E. & F.N. Spon, Ltd. (Web edition edited by Jasper Paulsen, Seattle, 2001.)// http://www.folds.net/diamond/index.html 2. Antique Jewelry University - Brilliant Cut. // http://university.langantiques.com/index.php/Brilliant_Cut
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