



АВТОНОМНАЯ НЕКОММЕРЧЕСКАЯ ОРГАНИЗАЦИЯ  
ДОПОЛНИТЕЛЬНОГО ПРОФЕССИОНАЛЬНОГО ОБРАЗОВАНИЯ  
"НАУЧНО-ОБРАЗОВАТЕЛЬНЫЙ МЕДИЦИНСКИЙ ЦЕНТР"




National Centre for  
Public Accreditation

# SUMMARY REPORT

ON EXTERNAL REVIEW

of the institution of further professional education  
"Centre for Medical Sciences Education"



Yekaterinburg, 2018

While preparing this Summary Report we used information from the Self-Evaluation Report and the Report on the External Review of the cluster of study programmes «Traumatology», «Orthopedics», «Vertebrology», «Arthroscopy», «Plastic Surgery», «Cosmetology», «Dermatology», «Otolaryngology», «Surgical Dentistry», «Plastic Surgery», «Mammology», «Oncology», «Gynecology», «Forensic Medical Examination» delivered by the institution of further professional education "Centre for Medical Sciences Education"

The presentation document for the use by the National Accreditation Board.

## CONTENTS

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General information on educational institution.....	4
Information on the further education study programmes undergoing accreditation .....	5
Achievements of the study programmes.....	7
External review panel.....	8
Compliance of the external review outcomes with the NCPA's standards.....	11
Distribution digram of the external review outcomes.....	16
Conclusion of the external review panel.....	17
Schedule of the site visit of the external review panel.....	18

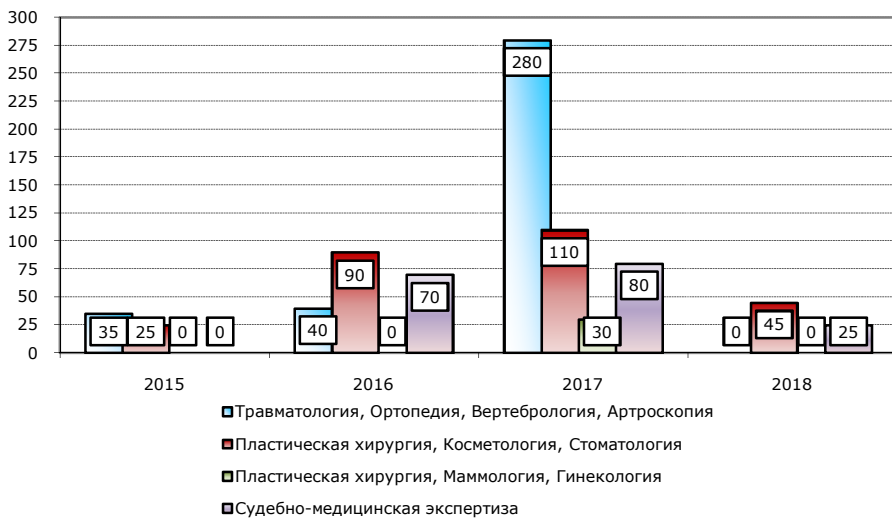
## GENERAL INFORMATION ON EDUCATIONAL INSTITUTION

Full name of the educational institution	<i>Non-For- Profit Autonomous Institution of Further Professional Education "Centre for Medical Sciences Education"</i>
Founders	<i>Federal State Budgetary Educational Institution of Higher Education «Urals State Medical University» of the Ministry of Healthcare of the Russian Federation ; OOO "TRIOMED", Perm</i>
Year of foundation	<i>2013</i>
Location	<i>620014, 5L, Lenin Av. Yekaterinburg, Russian Federation</i>
Rector	<i>Olga Sedykh, Candidate of Pedagogical Sciences</i>
License	<i>Series 66Л01 № 0004424 reg. № 17947 dated 30.10.2015 issued by the Ministry of General and Professional Education of Sverdlovsk Region permanent  License for medical activities № LO-66-01-004364 issued on 16 November, 2016 r. by the Ministry of Health of Sverdlovsk Region, Series H 0005020, the decision of the licensing authority № 1121-Л, Sanitary-Epidemiological Certificate № 66.01.34.000.M.001680.10.16 issued 17 October, 2016</i>
Number of students	<i>2015 - 60 2016 - 200 2017 - 500 January-March 2018 - 70</i>

## INFORMATION ON THE FUTURE EDUCATION STUDY PROGRAMMES UNDERGOING ACCREDITATION

Further education study programmes/ Level of training / Standard period of training	<p>Cadaver-lab: injury to the limb, pelvis, multiple trauma</p> <p>Cadaver-lab: large joint replacement</p> <p>Cadaver-lab: spondilectomy and other spinal operations Cadaver-lab: knee, shoulder and hip arthroscopy</p> <p>Cadaver-lab: face, neck and decollete surgery</p> <p>Cadaver-lab: injection methods in the face, neck and decollete</p> <p>Cadaver-lab: upper and lower jaw plasty, sinus lifting, rods, etc.</p> <p>Cadaver-lab: abdominoplasty and other cosmetic surgeries</p> <p>Cadaver-lab: breast surgery</p> <p>Cadaver-lab: gynecological surgery</p> <p>Cadaver-lab: aesthetic surgery of the perineum</p> <p>Tanatology</p> <p>Toxicochemical testing of the biological objects</p> <p>Genetic forensic testing of the material evidence</p> <p>General training 16 hours</p> <p>Thematic advanced training 18, 24, 36, 72 hours</p> <p>Certification course 144 hours</p> <p>Retraining 540, 576 to 1000 hours</p>
Structural subdivisions (Head	<p>Director of Further Professional Education – Tatyana Malysheva</p> <p>Director of Morphology Centre – Vladimir Obukhov</p>
Date of the site visit People responsible for accreditation of the study programme	<p>Date of the site visit</p> <p><i>Olga Sedykh, Rector</i></p>

## REFERENCE DATA ON STUDENT ENROLLMENT FOR FURTHER EDUCATION STUDY PROGRAMMES



## **ACHIEVEMENTS OF THE STUDY PROGRAMMES**

### **Quality of implementing the further education study programmes**

NPO APE “Centre for medical sciences education” (CMSE) is an exclusive official morphology centre in Russia, providing practitioners with opportunities to work with natural tissues on fresh biomannequins to obtain new competencies and train relevant skills in demand for practical health system in the conditions most closely resembling the workplace.

The quality of the programme is ensured by different forms of training in accordance with the requirements of practical health care.

### **Provision of up-to-date education**

The further education programmes aim to meet the requirements of the customers of the medical services market. The programmes are based on modern high tech invasive methods used in everyday medical practice.

### **Teaching staff**

The teaching staff of the Centre is comprised of highly qualified teachers who have relevant theoretical and practical experience. The total number of staff is 52: 37 teachers (71%) have Doctor of Sciences (10- 19%) and Candidate of Sciences (27-51%) degrees.

All the teachers are practicing physicians who have extensive experience and are familiar with the needs of practical health care.

### **Material and technical resources**

The practical training operating room serves as a workshop for testing new medical equipment. Feedback from customers (practical surgeons) is taken into account in developing new medical devices.

### **International projects**

From 2015 to March of 2018 over 1500 Russian and foreign (Kazakhstan, Ukraine, Kirgizia, Germany, United Arab Emirates, Switzerland, Israel, Greece, Hungary, Poland and others) specialists have been trained in CMSE.

## EXTERNAL REVIEW PANEL



**Florian Bauer** (Germany)-

Review Chair foreign expert

*Doctor of Medical Sciences (Dentistry), Associate Professor at the Department of Oral and Maxillofacial Surgery, Technical University of Munich ;*

Nominated by the German accreditation agency evalag



**Sergei Ryzhkin** (Ruissia)

Deputy Review Chair, Russian expert

*Candidate of Medical Sciences, Associate Professor at the Department of Radiology, Head of the Department of Further Professional Education at Kazan State Medical Academy, branch of Russian Medical Academy of Continuous Professional Education and Training of the Ministry of Healthcare of the Russian Federation, member of the Russian Society of Radiology —*

Nominated by the Guild of Experts in Higher Education



**Yuping Yang** (China)

Panel member , foreign expert

*Professor, Associate Chief of Physician Institute of Sports Medicine and Vice Director of Human Resource Department of Peking University Third Hospital, Organizing Committee member of Chinese Medical Association (Division of Traumatology, Trauma Care and Multiple Wounds Care Group), Committee member of ISAKOS (International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine)*

Nominated by The Higher Education Evaluation Center (HEEC) of the Ministry of Education f China



**Oeg Kolesov**(Russia)

Panel member, representative of the professional community

*Forensic Expert of Higher Qualification, State Budgetary Institution of Health Care of the Sverdlovsk Region "Forensic Medical Bureau"*

Nominated by the administration of "Forensic Medical Bureau"



## LEADING STAFF MEMBERS OF THE PROGRAMME

### **Elena Volokitina**

*Doctor of Medical Sciences, Professor at the Department of Traumatology and Orthopedics of the Advanced Training Faculty (the Urals State University); high level certificate physician; scientific supervisor of the Clinic for Traumatology and Orthopedics (Yekaterinburg)»*

### **Michail Gilev**

*Candidate of Medical Sciences, trauma orthopedist at the Central Municipal Clinic #24 (Yekaterinburg)*

### **Kiril Gornyxh**

*Physician neurologist at the Oncology Centre of Sverdlovsk Oblast (Yekaterinburg)*

### **Andrey Kaminsky**

*Candidate of Medical Sciences; high level certificate physician, Head of the Department at the Ilizarov Restorative Traumatology and Orthopedics Centre*

### **Elena Karpova**

*Doctor of Medical Sciences, Professor at the Department for Skin Diseases and Cosmetology of N.I. Pirogov, plastic surgeon RRMO*

### **Dmitry Kondrashov**

*Candidate of Medical Sciences, physician, certified forensic expert; Director of Forensic Medical Bureau”*

### **Nikolay Kornilov**

*Doctor of Medical Sciences, Professor at the Department of Traumatology and Orthopedics of the Russian Research Institute of Traumatology and Orthopedics*

### **Igor Kostetsky**

*Candidate of Medical Sciences, physician, high level certificate anesthesiologist; Head of the Emergency Department of the Central Municipal Clinical Hospital №23*

### **Oleg Peshikov**

*Candidate of Medical Sciences, Associate Professor at the Department of Topographic Anatomy and Operative Surgery of the Sothern Urals State Medical University (Chelyabinsk)*

### **Sergey Ryabykh**

*Doctor of Medical Sciences, pediatric surgeon, trauma orthopedist; Head of the Research Clinical Laboratory of the Pathology of the Axial Sceleton and Neurosurgery*

## **Georgy Totchiev**

*Doctor of Medical Sciences, Professor at the Department of Obstetrics and Gynecology of the Peoples' Friendship University of Russia (Moscow)*

## **Alexander Shershever**

*Doctor of Medical Sciences, Professor at the Department of Neuropathology and Neurosurgery of the Urals State Medical University*

## **Igor Shubnyakov**

*Doctor of Medical Sciences, trauma orthopedist, Vreden Russian Research Scientific Institute of Traumatology and Orthopedics (Saint Petersburg)*

# COMPLIANCE OF THE EXTERNAL REVIEW OUTCOMES WITH THE NCPA'S STANDARDS

## **Standard 1. Policy (goals, development strategy) of the institution of further professional education**

Compliance with the standard: **substantial compliance**

### **Good practice:**

CMSE developed local normative documents that regulate the activities of the organization. The CMSE goals and the mission are described in the Statutes.

The unique experience of CMSE in the developing of state and private partnership facilitate the enhancement of competences of healthcare practitioners by way of mastering further professional education programmes. Representatives of founders, employers, and teachers participate in the discussion and development of the institution's programmes. .

Issues connected with the main activity of the educational institution are regularly discussed, at least twice a year.

The educational institution cooperates with the Ministry of Healthcare of Sverdlovsk Region.

The number of students of the further education programmes is steadily growing.

### **Areas for improvement:**

It is recommended to systematically cooperate with the Ministry of Healthcare of Sverdlovsk Region on activity planning, in particular, on design and implementation of the educational programmes and on continuous medical education.

It is advisable to clearly define purposes and objectives in the development strategy of the institution.

It is necessary to step up efforts to inform healthcare governing bodies, medical organizations, and educational institutions about the possibilities of the Centre and its further education programmes.

## **Standard 2. Educational programmes**

Compliance with the standard: **substantial compliance**

### **Good practice:**

55 further education programmes in the sphere of medical, biological and pharmaceutical sciences have been developed and approved in CMSE. The feedback from students and representatives of employers indicates high compliance of expected learning outcomes with the requirements of employers and students.

Further education programmes are practice-oriented and are characterized by the use of modern scientific achievements in the educational process.

The Centre for Medical Sciences Education is a morphological base of the main federal research institutions and traumatological and orthopedic organizations: Russian Scientific Research Institute of Traumatology and Orthopedics named after R.R. Vreden, Saint Petersburg; Russian Ilizarov Scientific Centre for Restorative Traumatology and Orthopedics, Kurgan; Chaklin Ural Institute of Traumatology and Orthopedics, Yekaterinburg; Ural Clinical and Rehabilitation Centre, Nizhni Tagil; Institute of Traumatology, Orthopedics and Prosthetics, Barnaul.

Unique modern methods of work with biological tissues and objects that recreate real tissues of a human body are used in the educational process.

### **Areas for improvement:**

It is recommended that the titles of further education programmes should be brought into compliance with the requirements of the Federal Law №273-ФЗ of December 29, 2012 «On Education in the Russian Federation», with Order №499 of the Ministry of Education and Science of the Russian Federation of July 1, 2013.

It is advisable that further education programmes be updated with the description of the list of professional competences which are reviewed and updated at the end of training. It is also recommended to update the assessment forms developing scales and criteria of competences' formation when approving the professional standards.

It is necessary that students, representatives of employers and representatives of professional non-profit organization should be involved in the design of further education programmes.

The list of further education programmes should be extended taking into account the human capacity, possibilities of clinical bases, and material and technical resources.

### **Standard 3. Resources**

Compliance with the standard: **substantial compliance**

#### **Good practice:**

Material and technical resources in CMSE are adequate and sufficient for organizing the academic process at a highest level. They include classrooms, procedure rooms, the training operating room cadaver-lab, toxicochemical and genetic laboratories on the basis of the Forensic Medical Bureau.

Students serve internships at the clinical bases of: Verden Russian Scientific Research Institute of Traumatology and Orthopedics, Saint Petersburg; Ilizarov Russian Scientific Centre for Restorative Traumatology and Orthopedics, Kurgan; Chaklin Ural Institute of

Traumatology and Orthopedics, Yekaterinburg; Ural Clinical and Rehabilitation Centre, Nizhni Tagil; City Hospital № 41, Yekaterinburg; Academy of Beauty; Academy of Aesthetics and Health; Innovative Medicine "InnoMed; Network of clinics "LINLAIN"; Centre for Nuclear Medicine (PET-Technology); Triumph (Health Resorts "Samotsvet" and "Nizhniye Sergi"); State Autonomous Health Care Institution "Chusovskoye Lake"; European Medical Centre «UMMC-Zdorovie»; Ural Innovative Centre of Expertise.

The classrooms are provided with personal computers and access to the Internet.

The students of the Centre can use library resources (including the electronic ones) of the Urals State Medical University, they have an access to education materials of each discipline that include: a curriculum, a course programme, a list of normative legal documents, lectures, tests, course books, education materials, and legislative literature that students can get during the lecture or online on the web-site.

There are 42286 books in the library, 4049 of them are in foreign languages. There is an access to foreign databases EBSCO, MedLine, Scopus and others.

CMSE has an official web-site where the information about the educational institution and further education programmes (there are several sections in the English language) is presented. People can file an application online.

### **Areas for improvement:**

It is necessary to develop the English version of the web-site to engage foreign students and to raise the attractiveness of the Centre.

## **Standard 4. Teaching staff and methodological support**

Compliance with the standard: **full compliance**

### **Good practice**

There are 52 teachers working in the Centre. The competency level of the teaching staff corresponds to the profile of further education programmes. 71% of the teachers are academic degree holders.

All teachers are practitioners with practical experience in teaching. The fact that main places of their work are clinics, leading educational and research institutions proves that the teaching staff have extensive practical experience.

The teaching staff regularly improve their qualification and do research (including defense of candidate and doctoral theses), participate in international conferences (USA, Canada, Great Britain, France).

Students are provided with teaching and learning materials. Education materials are regularly reviewed and updated by the

supervisors of the programmes, authors of courses and programmes in accordance with the latest achievements in this sphere and the requirements of practical healthcare.

Unique technologies are used in the educational process (for example, biomannequins). CMSE is the first educational institution to use the biomannequin in Gynecology.

An access to education materials is provided with the help of electronic resources and on the basis of the agreement with the Ural State Medical University on the use of the library stock.

### **Areas for improvement:**

The Panel recommends that the unified assessment scales and criteria should be developed.

It is advisable that the system of online voting should be developed and used to answer questions during the class. The effectiveness of assessment of students' knowledge should be improved and interactive forms of learning should be implemented.

## **Standard 5. Organization of the educational process**

Compliance with the standard: **substantial compliance**

### **Good practice:**

The syllabi reflect the contents of the curriculum and are practice-oriented: work in the training operating room (biomannequins/cadavers) and the training procedure room (participation in surgical interventions).

Training is conducted in small groups (not more than 6-8 people). An individual approach is used.

The Russian and/or foreign languages are used in the teaching process. CMSE is provided with the system «audio-guide» for simultaneous translation if necessary.

CMSE has a possibility to use the necessary number of clinical bases for work placement and internships.

The methods of training correspond to the contents and goals of the programmes, to the educational level of students and take into account their individual characteristics.

CMSE uses various forms of final assessment (exams, attestation).

### **Areas for improvement:**

It is recommended that the programmes of final assessment on further education programmes with assessment forms, scales and criteria (questionnaire, checklists and others) should be developed.

## **Standard 6. Internal quality assurance system**

Compliance with the standard: **full compliance**

## **Good practice:**

The CMSE internal system of education quality evaluation (internal review) is a set of events and procedures aimed at the continuous support of academic, methodological, research and educational activities in accordance with modern requirements. The Head of the Department of Further Professional Education implements the internal monitoring and correction of the programmes.

Employers, students and representatives of healthcare governing bodies are willing to cooperate with CMSE representatives on updating the contents of the further education programmes and aligning them with the professional standards in healthcare.

The internal quality control is carried out in the following areas: correspondence of academic and methodological work (availability and relevance of the educational programmes, provision of the educational process with literature and education materials); human resource development of the teaching staff; material and technical resources of the educational process; state of internal order, workplace and academic discipline; state of financial and economic activities.

Internal control is carried out by the following methods: examination of documentation; supervision of the organization of the educational process; surveys of participants of the educational process; examination and assessment of the educational process and training, skills and knowledge of students.

## **Areas for improvement:**

It is recommended that more employers of relevant fields should be involved in the development and reviewing of further education programmes.

## **Standard 7. Competitiveness of programmes**

Compliance with the standard: **full compliance**

## **Good practice:**

The further education programmes are unique and have competitive advantages in the Russian Federation: teachers who have degrees and extensive practical experience; unique equipment and training operating rooms provided with modern surgical, optical and other tools; high quality biomannequins (fresh cadavers);

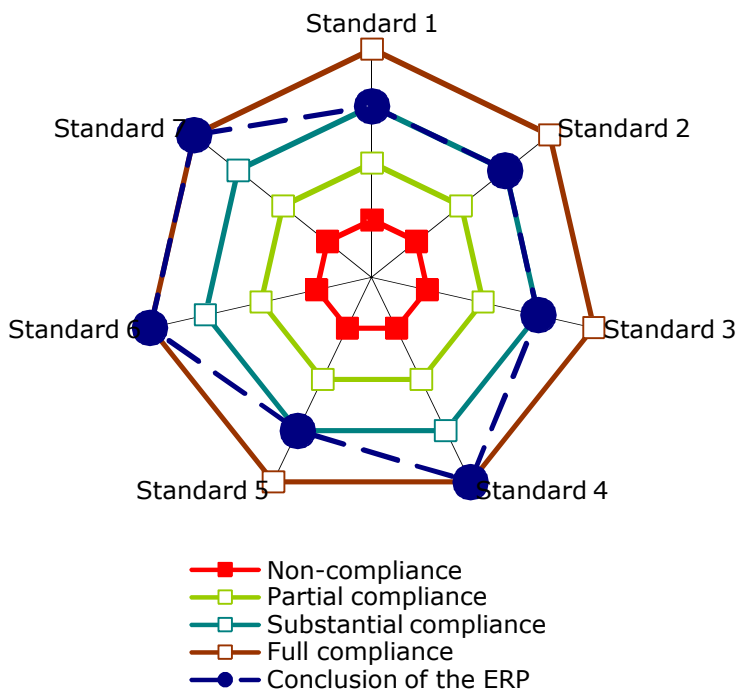
The institution has the possibility to issue a Diploma supplement;

In the period of 2015 to March 2018 over 1500 specialist have undergone advanced training in CMSE

## **Areas for improvement:**

CMSE initiative on design and implementation of interdisciplinary educational programmes on a systematic basis should be supported.

## DISTRIBUTION DIGRAM OF THE EXTERNAL REVIEW OUTCOMES



- Standard 1. Policy (goals, developmental strategy) of the institution of further professional education
- Standard 2. Educational programmes
- Standard 3. Resources
- Standard 4. Teaching staff and methodological support
- Standard 5. Organization of the educational process
- Standard 6. Internal quality assurance system
- Standard 7. Competitiveness of programmes



## CONCLUSION OF THE EXTERNAL REVIEW PANEL

Based on the self-evaluation report analysis, documents and data submitted the External Review Panel has come to the conclusion that further education programmes «Human locomotion system, Operative skills in traumatology, orthopedics, arthroscopy, vertebrology with a practical course in cadaver-lab», «Surgical anatomy of the face, neck, decollate. Skills to safely use the injection techniques in aesthetic medicine, dental surgery, otolaryngology and maxilla-facial surgery with a practical course in cadaver-lab», «Topographic anatomy of the human soft tissues. Operative skills in mammary, perineal, abdominal wall surgery and surgery of other localizations with a practical course in cadaver-lab», «Forensic medicine» substantially comply with the standards and criteria of public accreditation of the National Centre for Public Accreditation.

The Panel recommends that the National Accreditation Board accredit the Centre for Medical Sciences Education for the period of **6 years**.

## SCHEDULE OF THE SITE VISIT OF THE EXTERNAL REVIEW PANEL

Time	Activity	Participants	Venue
<b>May 24, Thursday</b>			
08.35	Transfer from the hotel «Tenet» to CMSE		5 Л, Lenina Prospect, Yekaterinburg
09.00 – 11.30	The first meeting of the external review panel		Room 406
11.30 – 12.30	<b>Meeting of the ERP with CMSE administration and people responsible for accreditation</b>	CMSE director, Heads of Departments, people responsible for accreditation, ERP	Room 406
12.30 – 13.00	Work with documents	ERP	Room 406
13.00 – 14.00	Lunch		CMSE Cafe
14.00 – 14.30	Internal meeting of the ERP	ERP	Room 406
14.30 – 16.00	<b>Meeting with the Head of the Department of Further Professional Education, Deputy Heads, supervisors of programmes, methodologists</b>	Head of the Department of Further Professional Education, Head of the Morphological Department, supervisors of programmes, managers of further education programmes, methodologists, ERP	Room 406
16.00 – 16.30	Work with documents	ERP	Room 406
16.30 – 17.30	Tour of the Centre (visiting classrooms, training procedure room, library of Ural State Medical University)	ERP	Classroom 304 Room 307 - Training Procedure Room, 5 Л, Lenina Prospect Library of Ural State Medical University, 5 A, Kluchevskaya Str.
17.30 – 18.00	Internal meeting of the ERP	ERP	Room 406

Time	Activity	Participants	Venue
<b>May 25, Friday</b>			
8.40	Transfer from the hotel «Tenet». Arrival at practical training premises		41, S. Deryabinoy Str.
09.00 – 11.00	Tour of the practical training premises (visiting Toxicological and Chemical Laboratory, Biological and Genetic Laboratory, training surgery room in the Forensic Medical Bureau)	ERP	41, S. Deryabinoy Str.
11.15	Arrival at CMSE		5 Л, Lenina Prospect, Ekaterinburg
11.30 – 12.30	<b>Meeting with teachers</b>	Teachers, ERP	Room 304
12.45 – 13.30	Lunch		Cafe, 9A February Revolution Str.
13:45 – 14:15	Tour of the practical training premises: the conference of specialists «Radiology of the Female Reproductive System»	ERP	1, Borisa Yeltsina Str.
14.30 – 15.00	Internal meeting of the ERP		Room 304
15.00 – 16.00	<b>Meeting with students</b>	Students, ERP	Room 304
16.00 – 18.00	Work with assessment forms and the report	ERP	Room 304
18.00 – 19.00	<b>Meeting with representatives of professional community</b>	Employers, ERP	Room 304
19.00 – 19.30	Internal meeting of the ERP		Room 304
<b>May 26, Saturday</b>			
08.00 – 08.15	Transfer from the hotel «Tenet» to CMSE		5 Л, Lenina Prospect
08.15 – 11.00	Internal meeting of the ERP: discussion of preliminary results of the site visit, preparation of the oral report of the panel	ERP	Internal meeting of the ERP: discussion of preliminary results of the site visit, preparation of the oral report of the panel
11.00 – 11.30	<b>Closing meeting of the External Review Panel with the representatives of the Centre</b>	Director of the Centre, supervisors of programmes, people responsible for accreditation, ERP	<b>Closing meeting of the External Review Panel with the representatives of the Centre</b>
11.30 – 14.00	Tour of Yekaterinburg		
14:00 – 14:45	Lunch		Cafe, 51, Malysheva Str.
14:45	Transfer to the airport		