

**Job shadowing programme field:** mechanical engineering

**Place:** Detva, Slovakia

**Time:** October 22 – 25, 2018

Time	Activity description	Learning outcomes <i>(Visiting teacher can/is able to...)</i>
Monday (October 22, 2018)		
09:00	Arrival and check in at accommodation place	
09:30	Meeting with the school's headmaster: <ul style="list-style-type: none"> <li>• presentation of the agenda</li> <li>• defining out all the logistic details</li> </ul>	
10:30	Discussion with the school management: <ul style="list-style-type: none"> <li>• dual education</li> <li>• lifelong learning of teachers</li> <li>• methods of motivation of teachers</li> <li>• evaluation of teachers</li> <li>• cooperation with employers, industrial chambers and industry associations</li> </ul>	<ul style="list-style-type: none"> <li>• recognize key elements of dual education system in Slovakia</li> <li>• describe new reforms and pilot projects in the VET education, (dual system experiments, their pros and cons, etc.)</li> <li>• recognize background, career path, responsibilities, obligations and rights of VET teachers in Slovak education system</li> <li>• use different methods of motivation of teachers</li> <li>• apply different methods of evaluation of teachers</li> <li>• recognize key elements for effective cooperation between all organizations participating in educational process</li> </ul>
11:00	School organisation: <ul style="list-style-type: none"> <li>• breaks, teachers' room, teachers' meetings</li> <li>• presentation of the foreign VET teachers to their Slovak teacher colleagues</li> <li>• classrooms tour (theoretical education + workshops)</li> </ul>	<ul style="list-style-type: none"> <li>• apply health and safety rules</li> <li>• comply with the most significant school rules</li> <li>• recognize the most significant obligations and responsibilities of a host teachers</li> </ul>

11:50	Lunch break	
12:20	Vocational subjects theoretical classes preparation and implementation: <ul style="list-style-type: none"> <li>• participation in preparation of lessons</li> <li>• visits to the following classes: <ul style="list-style-type: none"> <li>– technical drawings according to norms</li> <li>– materials in mechanical engineering, their technological properties, methods, heat treatment and surface treatment</li> </ul> </li> <li>• monitoring students feedback on provided lessons</li> </ul>	<ul style="list-style-type: none"> <li>• prepare a lesson which include modern teaching materials and methods</li> <li>• prepare individualized teaching contents in field of mechanical engineering</li> <li>• identify actual norms for technical drawings</li> <li>• apply new ways of using different materials in mechanical engineering</li> <li>• recognize new ways of materials treatment</li> <li>• use new didactical and methodical approaches in mechanical engineering teaching</li> <li>• describe main contents and learning outcomes of mechanical engineering curriculum</li> </ul>
15:00	Discussion with host teachers in mechanical engineering sector: <ul style="list-style-type: none"> <li>• didactics of vocational education</li> <li>• assessment of students</li> <li>• motivation of students</li> <li>• pedagogical agenda</li> </ul>	<ul style="list-style-type: none"> <li>• describe the context in which Slovak teachers teach</li> <li>• apply different methods of assessment and motivation of students</li> </ul>
16:30	Cultural programme: <ul style="list-style-type: none"> <li>• city tour</li> <li>• visit of the castle Vígľaš</li> </ul>	<ul style="list-style-type: none"> <li>• recognize main cultural and historical sights in region and their importance for local and regional life</li> </ul>
Tuesday (October 23, 2018)		
08:00	Vocational subjects theoretical classes preparation and implementation: <ul style="list-style-type: none"> <li>• participation in preparation of lessons</li> <li>• visits to the following classes: <ul style="list-style-type: none"> <li>– technical documentation</li> <li>– standards, regulations and technical requirements related to engineering production</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• prepare a lesson which include modern teaching materials and methods</li> <li>• prepare individualized teaching contents in field of mechanical engineering</li> <li>• prepare technical documentation for engineering production</li> <li>• apply new standards, regulations and technical requirements related to engineering production</li> </ul>

10:00	<ul style="list-style-type: none"> <li>• monitoring students feedback on provided lessons</li> </ul> <p>Vocational subjects practical classes preparation and implementation:</p> <ul style="list-style-type: none"> <li>• participation in preparation of lessons</li> <li>• equipment in school specialized classrooms and workshops</li> <li>• visits to the following classes: <ul style="list-style-type: none"> <li>– setting of CNC and traditional machines</li> <li>– operation and maintenance of machines</li> <li>– technical drawings according to norms</li> </ul> </li> <li>• monitoring students feedback on provided lessons</li> </ul>	<ul style="list-style-type: none"> <li>• recognize new approaches in engineering production teaching</li> <li>• use new didactical and methodical approaches in mechanical engineering teaching</li> <li>• describe main contents and learning outcomes of mechanical engineering curriculum</li> <li>• prepare a practical lesson with real and didactical equipment</li> <li>• set CNC and traditional machines</li> <li>• apply methods of operation and maintenance of machines</li> <li>• perform technical drawings according to norms</li> <li>• apply modern didactical and methodical approaches in practical teaching in school workshops</li> <li>• identify main needs of students practical learning approach</li> </ul>
11:50	Lunch break	
12:30	<p>Discussion with host teachers in mechanical engineering sector:</p> <ul style="list-style-type: none"> <li>• didactics of vocational education</li> <li>• practical teaching in cooperation with the employers</li> <li>• assessment of students</li> <li>• motivation of students</li> <li>• organizational forms of practical teaching</li> <li>• pedagogical agenda</li> </ul>	<ul style="list-style-type: none"> <li>• describe key aspects of theoretical and practical teaching correlation</li> <li>• recognize the most effective organizational measures for cooperation with the employers</li> <li>• apply innovative methods of assessment and motivation of students</li> </ul>
13:00	<p>Visits to regional companies (Slavia Production Systems a.s. – <i>construction</i>; Kops, spol. s r.o. – <i>CNC technologies</i>; PPS Groups, a.s. – <i>welding services</i>)</p> <ul style="list-style-type: none"> <li>• methods of practical training of students in working environment</li> </ul>	<ul style="list-style-type: none"> <li>• recognize new trends in construction, CNC and welding technologies</li> <li>• identify needs of employers for the knowledge and skills of their employees</li> <li>• recognize efficient methods of practical training in working</li> </ul>

16:00	<ul style="list-style-type: none"> <li>observing organization of monitoring students' practical training</li> <li>application of new technologies in practical training</li> <li>cooperation with school within practical training</li> </ul> <p>Cultural programme:</p> <ul style="list-style-type: none"> <li>UNESCO town Banská Štiavnica</li> </ul>	<p>environment</p> <ul style="list-style-type: none"> <li>compare organizational aspects of practical training in working environment in Slovakia and Croatia</li> <li>recognize main cultural and historical sights in region and their importance for local and regional life</li> </ul>
Wednesday (October 24, 2018)		
08:00	<p>Visit to the regional government:</p> <ul style="list-style-type: none"> <li>discussion about cooperation with employers, industrial chambers and industry associations</li> <li>discussion about vocational education system in region</li> <li>legislative framework for organization of practical education in region</li> <li>financial forms of supporting vocational education and training</li> </ul>	<ul style="list-style-type: none"> <li>identify main initiatives in supporting cooperation between all institutions and companies participating in labour market organization</li> <li>recognize key elements of voactional education system in region</li> <li>recognize ways of financing vocational education and training in Slovakia</li> </ul>
12:00	Lunch break	
13:00	<p>Visit to the industry chamber:</p> <ul style="list-style-type: none"> <li>good practice examples in field of mechanical engineering and construction technologies</li> <li>methods of identifying needs of employers for the knowledge and skills of their employees (mechanical engineering sector)</li> <li>obligatory documentation in monitoring of students' practical training progress (mechanical engineering sector-based criteria)</li> <li>cooperation with employers regarding organisation of practical training in working environment</li> </ul>	<ul style="list-style-type: none"> <li>apply good practice examples in field of mechanical engineering and construction</li> <li>apply efficient ways for establishing cooperation with employers regarding organisation of practical training in working environment</li> <li>prepare adequate documentation in monitoring of students' practical training progress</li> </ul>
15:00	<p>Cultural programme:</p> <ul style="list-style-type: none"> <li>Banská Bystrica and UNESCO heritage Church in Hronsek</li> </ul>	<ul style="list-style-type: none"> <li>recognize main cultural and historical sights in region and their importance for local and regional life</li> </ul>

Thursday (October 25, 2018)

08:00	<p>Vocational subjects practical classes preparation and implementation:</p> <ul style="list-style-type: none"> <li>• participation in preparation of lessons</li> <li>• equipment in school specialized classrooms and workshops</li> <li>• visits to the following classes: <ul style="list-style-type: none"> <li>– programming of CNC machines</li> <li>– preparation of control programs</li> <li>– selection of tools and conditions for CNC machines</li> </ul> </li> <li>• monitoring students feedback on provided lessons</li> </ul>	<ul style="list-style-type: none"> <li>• prepare individualized teaching contents in field of CNC technology</li> <li>• prepare a practical lesson with real and didactical equipment</li> <li>• prepare programs for CNC machines</li> <li>• apply concepts and principles in CNC machines programming</li> <li>• choose appropriate CNC technology for practical teaching in school workshops</li> <li>• apply security measures in mechanical engineering applications</li> </ul>
11:50	Lunch break	
12:20	<p>Round-up and discussion with host teachers:</p> <ul style="list-style-type: none"> <li>• vocational education in Slovakia and Croatia</li> <li>• organizational aspects of practical training in working environment</li> <li>• fields of potential future cooperation between host and sending schools</li> </ul>	<ul style="list-style-type: none"> <li>• compare organization of vocational education in Slovakia and Croatia</li> <li>• apply good practice examples in organization of practical training in working environment</li> <li>• recognize fields of potential future cooperation between host and sending schools</li> </ul>
16:00	Check out at accomodation place and departure	