

## CERTIFICATE OF COMPLETION

### Opening Schools to STEM Careers

25/09/2017 - 22/11/2017



### European Schoolnet Academy

This is to certify that

**Giger Matthias**

has successfully completed Opening Schools to STEM Careers course on the  
European Schoolnet Academy

Brussels, Monday, 4th December 2017



Dr. Àgueda Gras-Velázquez  
Course Coordinator



Marc Durando  
Executive Director  
European Schoolnet

#### Course details

Dates: 25/09/2017 - 22/11/2017

Duration: 21 hours

Description: <http://www.europeanschoolnetacademy.eu/web/opening-schools-to-stem-careers>

Organiser: EUN Partnership aisbl (known as European Schoolnet), Rue de Trèves 61, B-1040 Brussels

## Course contents



### Module 1: STEM careers in schools and in the job market

The course participant who has successfully passed this module has achieved the following learning outcomes: 1. Learning what we mean by STEM and why STEM studies are important; 2. Understanding what the STEM skill gap is while having a critical approach to it; 3. Assimilating the main benefits of career counselling in schools and understanding different cognitive-behaviour dimensions as pillars of career development; 4. Getting an introduction to school strategies to foster STEM career awareness, taking into account different possible types of school career counselling scenarios.



### Module 2: STEM career pathways

The course participant who has successfully passed this module has achieved the following learning outcomes: 1. Learning about current STEM industries and professions; 2. Understanding the evolution of STEM professions and jobs of the future; 3. Defining and recognising what STEM skills are -- specifically, learning about the importance of introducing ICT and digital skills in schools; 4. Comprehending what soft skills are and how these can be transferred to students.



### Module 3: STEM leading schools

The course participant who has successfully passed this module has achieved the following learning outcomes: 1. Comprehending the concept of school leadership and its typologies and the concept of a STEM leading school; 2. Understanding the different types of career-counselling approaches at the school level; 3. Learning how to integrate different professional roles into STEM career awareness; 4. Learning how to build a STEM career-counselling vision and action plan for their school.



### Module 4: Gender stereotypes in STEM education

The course participant who has successfully passed this module has achieved the following learning outcomes: 1. Understanding the concept of the STEM gender gap and learning how to analyse data regarding the situation of girls and women in STEM careers; 2. Learning strategies to further address gender equality in schools and to propel girls into STEM careers; 3. Learning about female scientists (present and past) and about current initiatives promoting girls in STEM.



### Module 5: Balancing the roles of teachers, mentors, parents and role models

The course participant who has successfully passed this module has achieved the following learning outcomes: 1. Developing the concept of mentorship and learning how it can be integrated in schools (with a focus on the roles of

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career counsellors and heads of schools); 2. Learning how to manage the role of parents in career awareness activities; 3. Learning how to integrate STEM professionals in school activities.



### Module 6: Benefits of external school to work programs

The course participant who has successfully passed this module has achieved the following learning outcomes: 1. Learning about the types of school-to-work programmes available and where to find them; 2. Learning how to guide students towards school-to-work programmes.



### Module 7: Career orientation events on STEM education

The course participant who has successfully passed this module has achieved the following learning outcomes: 1. Becoming aware of the main benefits of organising STEM career events in schools; 2. Learning tips and steps for organising their own STEM career event in their school; 3. Exploring case studies of various STEM career events.