

SUPSI

CAS Operation Management (OmA)

Descrizione

Codice

DTI OM

Presentazione

The focus of this CAS is to prepare the attendees to tackle the issues of transportation planning and management. It will address specific operational subject matters in both goods and passenger transport fields in the public and partially in the private sectors. This course will cover issues with an industry-minded approach covering topics such as intermodal passenger/goods transport, capacity planning, environmental impacts, and exchange hubs related to mobility and transportation.

This CAS is included into the MAS Railways and Sustainable Mobility (RSM). It trains both technical and management leaders, seeking a career in the transportation industry or in the public/private sectors of mobility & transportation. The participants acquire the skills needed in departments such as research and development, production, consultancy and public institutions. They will also acquire the knowledge for managing complex interdisciplinary projects.

The participants are going to study public transportation and planning in a wide context related to an integrated mobility. They will learn about the possible interconnection of different transport systems, how to efficiently design a public transportation system, how to calculate footprint emissions of a system, about freight cooperation and interaction between road and rail and much more. This new course will allow the attendees to be at ease in every situation. It will not matter if the topic is related to the transport of person or freight, the participants will receive the knowledgeable and reliable counterpart.

Obiettivi

- Describe a railways passenger transport system and understand the interdependencies
- Describe and apply the general concept of freight & intermodal transportation
- Understand the different transportation models and vehicles
- Know and understand how to correctly apply capacity analysis
- Comprehend the environmental impacts of mobility and implement mitigating actions
- Be capable of developing and to put into effect new concepts of environmentally friendly transportation
- Know and understand how to correctly apply principles of transportation operation management
- Understand and use simulations tools
- Know and understand how to apply the principles of urban public transportation

Destinatari

This CAS is devoted to engineers, managers, entrepreneurs, and experienced employees from the mobility sector as well as to professionals interested to work in this sector through the acquisition of the knowhow provided by this course.

Requisiti

Bachelor Graduates from Engineering Programs, Management or other Technical and Scientific faculties. Non-graduates Professionals and Manager from the fields Railways and Mobility with at least 3 years of experience. The Master is held in English (lessons and documentations) therefore a good command of English is required.

Certificato

Certificate of Advanced Studies SUPSI in Operation Management

Crediti di studio

11 ECTS

Contenuti

Programma

Module 1

Transportations models (TXM) - 24 hours (2 ETCS)

Module 2

Rail passenger transport & public transportation (RPP) - 24 hours (2 ETCS)

Module 3

Freight & intermodal transportation (FIT) - 24 hours (2 ETCS)

Module 4

Capacity analysis & operation management (COM) - 36 hours (3 ETCS)

Module 5

Environmental impacts of transportation systems (EIT) - 24 hours (2 ETCS)

Full program description is available on the website:

<http://www.msfi.ch/Certificate-of-Advanced-Studies-SUPSI-in-Operation-Management-OMa>

Durata

132 hour-lessons

Responsabile/i

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Relatore/i

Industrial experts and academic specialists.

Informazioni

Iscrizione ai corsi

Within September 20, 2019

Date

Transportations models (TXM)

27, 28 September, 25 October 2019

Rail passenger transport & public transportation (RPP)

11 October, 8, 30 November 2019

Capacity analysis & operation management (COM)

12 October, 9, 23 November, 14 December 2019

Environmental impacts of transportation systems (EIT)

26 October, 29, 30 November 2019

Freight & intermodal transportation (FIT)

22, 23 November, 13 December 2019

Orari

Friday 09:30 – 18:30

Saturday 09:30 – 18:30

Weekly block classes at company selected location available upon request (1 ON, 1, 2 or 3 OFF).

All RSM courses can be offered as a continuous 4 days for 4 weeks “Summer School” or “Block” class.

Luogo

At the “Officine FFS” in Bellinzona (5 minutes walking from the station).

Costo

CHF 6'100.–

For those who already have attended a CAS of the MAS – RSM, the cost is CHF 5'700 with a further reduction of 10%.

These costs include the final exam, the issue of the certificate and the documentation.

Companies with more than three (3) enrolled participants will be granted a special discount.

Osservazioni

Mandatory 2-day practical experience

Students shall choose two of the following experiences:

- Train conductor - (Chef Kundenbegleiter, chef de train, capo treno)
- Train driver - (Lokführer, conducteur de trains, macchinista)
- Traffic engineer - (Verkehringenieur, ingénieur des transports, ingegnere del traffico)
- Train controller - (Zugverkehrsleiter, chef circulation des trains, responsabile circolazione treni)
- Client advisor - (Kundenberatung, conseiller clientèle, consulente della clientela)
- Transport police - (Transportpolizei, police des transports, polizia dei trasporti)
- AD Project Experience - (Autonomous Drive)
- Vehicle hand-on – (Unterhalt und Service, entretien et service, manutenzione e servizio)

Credits: no credits

Lectures

Tuition and documentation will be in English, but we can assist the students in Italian and German.

If you wish to attend the course in another language, please mention it during registration and select between Italian and German. The Course could be held in another language if there were at least 8-10 participants.

Informazioni di contatto

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