CAS ETH in Applied Manufacturing Technology

A new programme providing managers with production technology qualifications for leadership positions
CAS ETH AMT

Certificate of Advanced Studies ETH in Applied Manufacturing Technology

Target Audience
The programme is intended for professionals who
- have management experience or background
- work in production and technology related industries
- would like to broaden their knowledge in the field of advanced production technologies

Programme
The CAS AMT is designed to provide a targeted education in the design and manufacture of engineered products. Participants will learn about the most important processes and advanced technologies driving the transition to Industry 4.0 and how they are being applied in practice to develop new and innovative products across various industries.

Modules
1. Manufacturing Processes
This module discusses the most important manufacturing processes and technologies driving Industry 4.0, including both traditional and advanced manufacturing.

2. Production Systems
The module explains the key technologies and principles used to manage and improve typical industry production systems. Participants explore how evolving trends and new technology are impacting a number of practical considerations such as quality, productivity, customization, external relationships, etc.
3. Product Development & Technology Implementation
This module uses practical design exercises focused around Agile Development and working in sprints to expose participants to some of the real world challenges faced by design and industrial engineers as well as the tools they use to address these challenges.

4. Materials
The module provides fundamental training in the behaviour and manufacturing properties of materials as well as an introduction to materials selection and design considerations.

Organization
Participants complete 4 modules over 14 weeks from January to April. Classes are generally conducted in either a block format or blended learning format to minimize time away from work. Workload is approximately 300 hours and successful graduates earn a total of 12 ECTS credits.

Admission Requirements
A Master’s level university degree recognised by ETH Zurich and several years of professional experience.

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<thead>
<tr>
<th>Study</th>
<th>Language: 100% English</th>
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<tbody>
<tr>
<td>Format:</td>
<td>2-day blocks every other week</td>
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<tr>
<td>Start:</td>
<td>Every January</td>
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<td>Cost:</td>
<td>8’500 CHF</td>
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<td>Application:</td>
<td>1 November – 15 December 2019</td>
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<td>Information:</td>
<td><a href="http://www.mas-at.ethz.ch/cas-programs/cas2">www.mas-at.ethz.ch/cas-programs/cas2</a></td>
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Contact

CAS ETH in Applied Manufacturing Technology

Host Departments: Mechanical and Process Engineering (D-MAVT) Materials (D-MATL)

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www.mas-at.ethz.ch/cas-programs/cas2

ETH School for Continuing Education

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