

# Creating Custom Agents with MindConnect Library Training

## Product Sheet



This training provides detailed insights into MindConnect Library, enabling you to build your own custom agent for MindSphere using C programming language. You will learn how to compile MindConnect Library on a specific operating system and use the library to exchange data with MindSphere. The onboarding of a new agent is covered in detail.

### Training Specifics

Content	<ul style="list-style-type: none"> <li>• Fundamentals of MCLIB</li> <li>• Library Ecosystem</li> <li>• MindConnect Library Core</li> <li>• IoT Data Model</li> <li>• Data Mapping Timeseries</li> </ul>
Prerequisites	<ul style="list-style-type: none"> <li>• Basic knowledge and skills in C programming</li> <li>• CMake (version 3.10 or later), LibCurl (version 7.65.3 or newer), OpenSSL (version 1.1.1d or newer) and C compiler to build source code</li> <li>• Download of MCLIB from Siemens Industry Online Support: <a href="https://support.industry.siemens.com/cs/document/109772086/mindconnect-library-4-2-for-mindsphere-3-0-?dti=0&amp;pnid=24842&amp;lc=en-PK">https://support.industry.siemens.com/cs/document/109772086/mindconnect-library-4-2-for-mindsphere-3-0-?dti=0&amp;pnid=24842&amp;lc=en-PK</a></li> <li>• Laptop with stable connection to the internet (minimum of 10MBs upload/10MBs download)</li> <li>• Web browser (Chrome recommended)</li> <li>• Headset with microphone (recommended for Virtual Instructor-led Training)</li> </ul>
Training methods	<ul style="list-style-type: none"> <li>• Interactive lectures</li> <li>• Hands-on exercises</li> </ul>
Covid-19 provision	<p>Siemens is working hard to meet delivery and performance dates, temporary delays in delivery and service performance cannot be ruled out as a result of the global outbreak of the novel coronavirus (2019-nCoV/SARS-CoV-2). Siemens retains the right to partial delivery/performance of services and shall be entitled to reasonable adjustments of delivery dates and schedules. Siemens shall also be entitled to an equitable adjustment for additional costs (if any) to complete delivery/performance.</p>

Instructor-led Training	
Location	Location provided by Siemens.
Number of participants	Maximum of ten participants.
Duration	1x 8-hour session.
Included in price	Training is priced per person and includes training, training material, and lunch for non-Siemens (external) participants.
Out of scope	Participant's travel expenses and travel arrangements.
Availability	The schedule for upcoming trainings is provided online. Trainings are available on a first-come, first-serve basis.
Booking confirmation	Once a training is booked and availability is checked, a confirmation email with detailed information will be sent.

Virtual Instructor-led Training	
Location	Virtual Instructor-led Training delivered via web browser.
Number of participants	Maximum of ten participants.
Duration	4 hours each day for 2 days.
Included in price	Training is priced per person and includes training and training material.
Availability	The schedule for upcoming public trainings is provided online. Trainings are available on a first-come, first-serve basis.
Booking confirmation	Once a training is booked and availability is checked, a confirmation email with detailed information will be sent.

Packaged Virtual Instructor-led Training	
Location	Virtual Instructor-led Training delivered via web browser.
Number of participants	Maximum of ten participants.
Duration	4 hours each day for 2 days.
Included in price	Training is priced as a package for up to 10 participants and includes training and training material.
Availability	Training availability is based on demand and is subject to availability of trainer(s).
Booking confirmation	Training dates are confirmed by Siemens after order intake.

Onsite Training	
Location	Location subject to agreement by Siemens at Siemens' sole discretion. Location, including specific address, must be agreed at least two weeks prior to training start date.
Number of participants	Maximum of ten participants.
Duration	1x 8-hour session.

Included in price	Training is priced as a package for up to 10 participants and includes training and training material.
Out of scope	Training delivered at a specific customer's site doesn't include: <ul style="list-style-type: none"> <li>• Travel time and expenses for trainer(s)</li> <li>• Organization of training room and catering</li> <li>• Shipping and usage of training racks</li> </ul>
Availability	Training availability is based on demand and is subject to availability of trainer(s).
Booking confirmation	Training dates are confirmed by Siemens after order intake.

## Support

Online support	For questions and support regarding training programs, please contact your regional training team: <a href="https://training.plm.automation.siemens.com/courses/contacts.cfm">https://training.plm.automation.siemens.com/courses/contacts.cfm</a>
----------------	---