

Development Training for MindSphere

Product Sheet



This three-day training provides insights into MindSphere essentials such as its architecture and IoT data model. Information will be provided on the MindConnect API, which enables the building of custom agents for MindSphere. Agents can securely send data from any device to MindSphere. All development fundamentals will be explained beginning with the generation of Cloud Foundry knowledge and ending in using MindSphere APIs, pushing an application to MindSphere, and learning about MindSphere's security concepts, permission model, and request routing.

Training Specifics

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| Content | <ul style="list-style-type: none"> • MindSphere Essentials <ul style="list-style-type: none"> - MindSphere Architecture - Digital Twin - MindSphere IoT data model - Device Onboarding • MindConnect API <ul style="list-style-type: none"> - Creating an Agent - Authorization & Authentication - Data Ingestion & Mapping • Development Fundamentals for MindSphere <ul style="list-style-type: none"> - Cloud Foundry - Environment Set-Up - Pushing an App - Dashboard Application <ul style="list-style-type: none"> ▪ Asset Management API ▪ IoT Time Series Services ▪ IoT Time Series Aggregates Service |
| Duration | Three days |

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| Prerequisites | <ul style="list-style-type: none"> • First development experience with: <ul style="list-style-type: none"> - Node.js (JavaScript) - HTML • Basic knowledge of RESTful API and data base • Laptop with USB port with ability to connect to the internet via Wifi or cable |
| Training methods | <ul style="list-style-type: none"> • Interactive lectures • Hands-on training |

Definition

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| Public Training | Open classroom training that is booked per person with content predefined by Siemens, offered at a location designated by Siemens. |
| Onsite Training | Training that is booked per training with content predefined by Siemens, delivered at a specific customer's site. |
| General | Capitalized terms used herein shall have the definition ascribed to them in this Product Sheet or in the MindSphere Agreement. |

Public Training

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| Location | Location provided by Siemens. |
| Included in price | Training is priced per person and includes training, training material, and lunch for non-Siemens (external) participants. Participants are responsible for their own travel arrangements and travel expenses. |
| Availability | The schedule for upcoming trainings is provided online. Trainings are available on a first-come, first-served basis. |
| Booking and confirmation | Once a training is booked, availability is checked and a confirmation email with detailed information will be sent. |

Onsite Training

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| Location | Location provided by customer and subject to agreement by Siemens in Siemens' sole discretion. Location, including specific address, must be agreed to by the parties at least two weeks prior to training start date. |
| Number of participants | Maximum of ten participants |
| Included in price | Training is priced as a package and includes training and training material. Participants are responsible for their own travel arrangements and travel expenses. |
| To be provided by customer | <ul style="list-style-type: none"> • Organization of training room and catering • Shipping and usage of training racks |
| Availability | Training availability is based on demand and is subject to availability of trainer(s). |
| Booking and confirmation | Training dates confirmed after order intake. |

Support

Online Support

For questions and support regarding classroom, public, and online training programs, please contact: training@mindsphere.io.