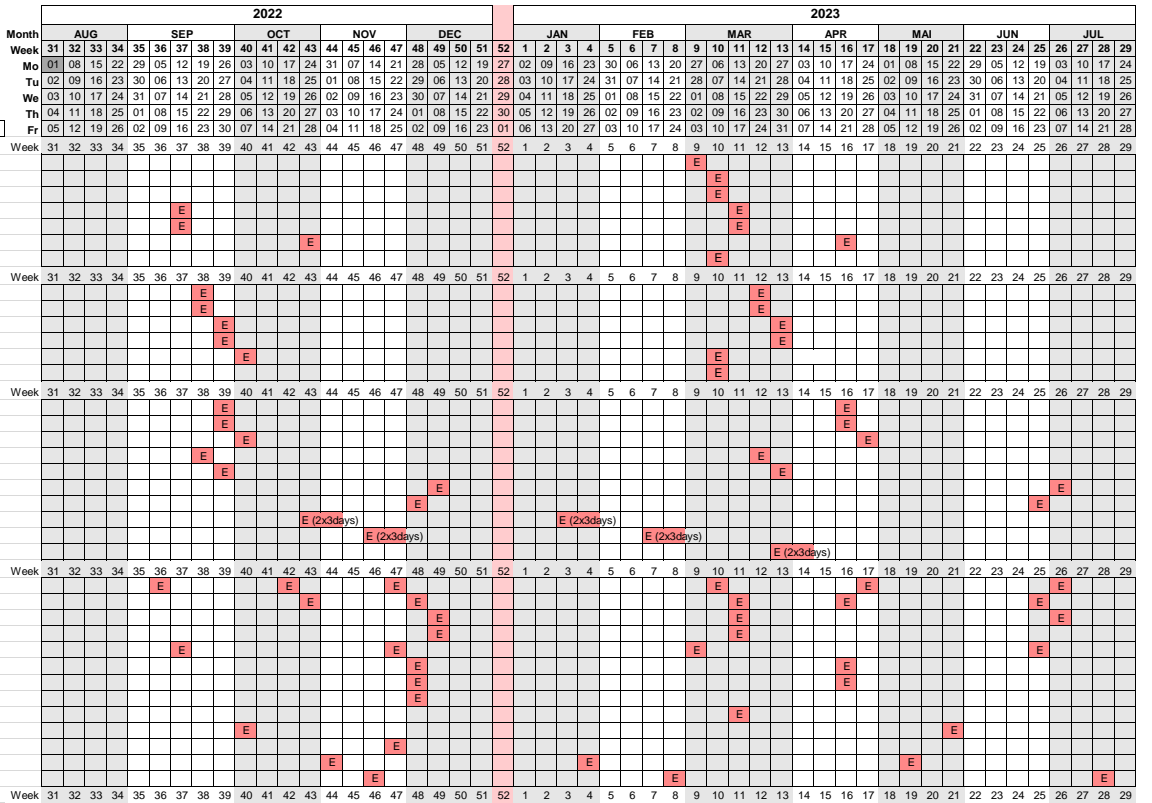


Learning Center Grid Automation

Open Courses - Actual course schedule 2022/2023 (status 2022-07-21)

This schedule shows the dates and actual status of open courses: which are available, canceled or confirmed for execution due to the numbers of enrolled participants (weekly update).

Level	Title	Country	No.	Days	Remark
Theory (Power Systems, Substation Automation, Protection & Communication Networks)					
L1	Power Grids Integration and Automation Technology - Fundamentals	CH	CHP101	5	Mon-Fri
L2	Digital Substation Architecture Design – Applications	CH	CHP184	2	Mon-Tue
L2	Cyber Security for Power Utilities – Applications	CH	CHP108	2	Wed-Thu
L2	Protection for Power Plants - Applications	CH	CHP131	5	Mon-Fri
L2	Protection for Lines, Busbars, CBs & Power Transformers - Applications	CH	CHP132	5	Mon-Fri
L3	Protection Studies for various Power Networks – Advanced Solutions	CH	CHP188	5	Mon-Fri
L1	Utility MPLS-TP Networks – Fundamentals	CH	CHP525	2	Thu-Fri
Product (Substation Automation & Protection)					
L1	Relion® 670/650 series with PCM600 for Protection Solutions – Operation	CH	CHP115	2	Mon-Tue
L2	Relion® 670/650 series with PCM600 for Protection Solutions – Maintenance & Configuration	CH	CHP150	5	Mon-Fri
L1	Relion® for Digital Substation Solutions - Operation & Maintenance	CH	CHP157	2	Mon-Tue
L2	Relion® for Digital Substation Solutions - Testing & Commissioning	CH	CHP158	5	Mon-Fri
L2	REB500/REB500sys for Busbar & Station Protection Solutions – Maintenance & Configuration	CH	CHP153	3	Mon-Wed
L1	SDM600 System Data Management - Operation & Configuration	CH	CHP170	1	Fri
System (Substation Automation & Protection)					
L1	SAS600 Substation Automation – Operation	CH	CHP122	2	Mon-Tue
L1	SAS600 Substation Automation – Operation & Maintenance	CH	CHP123	5	Mon-Fri
L2	IET600/IT600 for SAS600 Modification – System Engineering	CH	CHP194	5	Mon-Fri
L2	Relion® 670/650 series with PCM600 for Protection Solutions – Maintenance & Configuration	CH	CHP150	5	Mon-Fri
L2	Relion® for Digital Substation Solutions - Testing & Commissioning	CH	CHP158	5	Mon-Fri
L2	RTU540/560 Remote Terminal Unit Modification – System Engineering	CH	CHP176	5	Mon-Fri
L2	IET600/IT600 for IEC 61850 Integration & Testing – System Engineering	CH	CHP191	5	Mon-Fri
L3	IET600 Expert for IEC 61850 Integration with MicroSCADA - System Engineering (only Hitachi internal)	CH	CHP196	6	Mon-Wed
L3	SAS600 advanced Integration and Testing - System Engineering (only Hitachi internal)	CH	CHP197	6	Mon-Wed
L3	Digital Substation Upgrade Course – System Engineering (only Hitachi internal)	CH	CHS151	6	Mon-Wed
Product (Communication Networks)					
L1	FOX615 Multiservice Platform for SDH Networks	CH	CHP595	5	Mon-Fri
L1	FOX615 Multiservice Platform for MPLS-TP Networks	CH	CHP598	5	Mon-Fri
L1	FOXMAN-UN Network Management System for Operators	CH	CHP593	3	Mon-Wed
L2	FOXMAN-UN Network Management System for Administrators	CH	CHP594	2	Thu-Fri
L1	ETL600 R4 Universal Digital PLC Equipment	CH	CHP570	5	Mon-Fri
L1	NSD570 Teleprotection Equipment	CH	CHP574	2.5	Mon-Wed
L2	NSD570 IEC61850 GOOSE Interface	CH	CHP575	1.5	Wed-Thu
L1	SV9500 Appliance Server Telephone System	CH	CHP588	5	Mon-Fri
L1	SV9100 Telephone System	CH	CHP590	5	Mon-Fri
L1	UNEM Network Management System for Operators	UK	UKP593	3	Tue-Thu
L2	UNEM Network Management System for Administrators	UK	UKP594	2	Tue-Wed
L1	XMC20 Multiservice Platform for SDH Networks	UK	UKP595	5	Mon-Fri
L1	XMC20 Multiservice Platform for MPLS-TP Networks	UK	UKP598	5	Mon-Fri
FOX615 MPLS-TP Networks Design					
		CH	CHP596	7	on request
On Request (Power Systems, Substation Automation & Protection)					
L2	Protection for Industry & Distribution - Applications	CH	CHP134	5	on request
L2	Relion® 670/650 series with PCM600 for Grid Protection Solutions – Maintenance & Configuration	CH	CHP155	5	on request
L2	Relion® 670/650 series with PCM600 for Generator Protection Solutions – Maintenance & Configuration	CH	CHP156	5	on request
L2	REF542plus for Control and Protection Solutions – Operation & Configuration	CH	CHP164	4	on request
L2	REG216/316*4 for Generator Protection Solutions – Operation & Configuration	CH	CHP151	5	on request
L3	IET600 for IEC 61850 Integration with MicroSCADA - System Engineering	CH	CHP195	6	on request
On Request (Communication Networks)					
L1	Utility SDH Networks – Fundamentals	CH	CHP520	2	on request
L1	Ethernet Switching and TCP/IP – Introduction	CH	CHP522	2	on request
L1	FOX515H & Hs Multiservice Utility-MUX	CH	CHP552	3	on request
L1	FOX505 Access MUX	CH	CHP553	4	on request
L1	FOXView Enterprise Network Management System	CH	CHP554	1	on request
L1	FOX605 A Secure MPLS enabled Utility-MUX	CH	CHP555	4	on request
L1	FOX660 Multiservice Utility MUX for TDM Transport	CH	CHP556	3	on request
L1	FOX515 Access/Transport MUX	CH	CHP592	5	on request
L1	SV9500 Standard Server Telephone System	CH	CHP589	5	on request
L1	AFS600 Switch Family	CH	CHP558	3	on request
L2	AFF Firewall	CH	CHP560	2	on request



Public holidays: [Grey Box] English: [E] German: [G] French: [F] Actual confirmed for execution: [Green Box] Late canceled: [Red Box]

(Mon = Monday; Tue = Tuesday; Wed = Wednesday; Thu = Thursday; Fri = Friday)
(Mo = Montag; Di = Dienstag; Mi = Mittwoch; Do = Donnerstag; Fr = Freitag)

The latest version of our course schedule can be found on Internet
All courses can be also done as a remote classroom training

Course Level Guide:

- L1** The participants acquire fundamental knowledge on a specific subject or product basics. Level 1 courses are typically for newcomers. E.g. general philosophies, basic structures, - concepts, coherences with other technologies, HW structure, function overview, using of HMI's etc.
- L2** The participants gain an in-depth/advanced knowledge on a specific subject or application implement to a specific product. To attend level 2 courses we recommend knowledge on level 1 or equivalent job experiences. E.g. advanced application function knowledge, base design of a transformer protection solution, basic setting calculation of protection function, configuring & testing/troubleshooting of the IED, complete system modification and integration of add. parts.
- L3** The participants gain complex advanced knowledge on a subject or for system integration. To attend level 3 courses normally requires wide and/or in-depth knowledge on level 1+2 in multiple fields or equivalent job experiences. E.g. design complex system solutions, overall study + design of a protection concepts, substation architecture, integration and engineering from crash (e.g. channel partners), etc.

Customized Courses: Several courses can be conducted on request in other languages with English documentation. It is also possible to combined different course modules to one course cluster for a specific group training of 4-12 Person.

Coaching Courses: Several topics of any course can be combined to an unit with the focus of coaching and praxis work for 1-2 Person.

Contact: WebPage: Learning center Grid Automation Switzerland