

HITACHI ABB POWER GRIDS UNIVERSITY

## Learning Center Grid Automation Actual Course Schedule 2021-05-05

This schedule shows the actual status of available course dates (weekly updated).

Month	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC																																																																			
Week	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51																															
Mo	01	08	15	22	01	08	15	22	29	06	12	19	26	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22	29	06	13	20																															
Tu	02	09	16	23	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28	05	12	19	26	03	10	17	24	31																					
We	03	10	17	24	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	01	08	15	22	29	06	13	20	27	04	11	18	25	02	09	16	23	30	07	14	21	28	05	12	19	26	03	10	17	24	31				
Th	04	11	18	25	04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	01	08	15	22	29	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	02	09	16	23	30	07	14	21	28	05	12	19	26	03	10	17	24	31																	
Fr	05	12	19	26	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	02	09	16	23	30	06	13	20	27	03	10	17	24	01	08	15	22	29	05	12	19	26	03	10	17	24	01	08	15	22	29	06	13	20	27	04	11	18	25	02	09	16	23	30	07	14	21	28	05	12	19	26	03	10	17	24	31

Level	Title	Country	No.	Days	Remark
	<b>Theory (Power Systems, Substation Automation, Protection &amp; Communication Networks)</b>				
	<i>Price request</i>				
L1	Power Grids Integration and Automation Technology - Fundamentals	CH	CHP101	5	Mon-Fri
L2	Advanced Substation Automation Architecture & Design - Applications	CH	CHP109	5	Mon-Fri
L2	Digital Substation Architecture Design – Applications	CH	CHP184	2	Tue-Wed
L2	Cyber Security for Power Utilities – Applications	CH	CHP108	2	Thu-Fri
L2	Protection for Lines, Busbars, CBs & Power Transformers - Applications	CH	CHP132	5	Mon-Fri
L2	Protection for Industry & Distribution - Applications	CH	CHP134	5	Mon-Fri
L2	Protection for Power Plants - Applications	CH	CHP131	5	Mon-Fri
L3	Protection Studies for various Power Networks – Advanced Solutions	CH	CHP188	8	Mon-Wed
L1	Utility Communications – Fundamentals	CH	CHP511	3	Wed-Fri
L1	Utility MPLS-TP Networks – Fundamentals	CH	CHP525	2	Thu-Fri
L2	Planning & Realization of Electrical Traction Systems for Railways – Applications & System Solutions	CH	CHS008	3	Tue-Thu
	<b>Product (Substation Automation &amp; Protection)</b>				
	<i>Price request</i>				
L1	Relion®/PCM600 for Protection – Operation & Maintenance	CH	CHP150	5	Mon-Fri
L2	Relion® 670/650 series with PCM600 for Grid Protection Solutions – Maintenance & Configuration	CH	CHP155	5	Mon-Fri
L2	Relion® 670/650 series with PCM600 for Generator Protection Solutions – Maintenance & Configuration	CH	CHP156	5	Mon-Fri
L2	REB500/REB500sys for Busbar & Station Protection Solutions – Maintenance & Configuration	CH	CHP153	3	Mon-Wed
L2	SAM600 for Digital Substation Solutions - Operation & Configuration	CH	CHP157	2	Mon-Tue
L2	Relion®/PCM600/ITT600 Digital Substation - Testing & Commissioning	CH	CHP158	5	Mon-Fri
L2	SDM600 System Data Management - Operation & Configuration	CH	CHP170	2	Mon-Tue
	<b>System (Substation Automation &amp; Protection)</b>				
	<i>Price request</i>				
L1	SAS600 Substation Automation – Operation	CH	CHP122	3	Mon-Wed
L1	SAS600 Substation Automation – Operation & Maintenance	CH	CHP123	10	Mon-Fri
L1	Relion®/PCM600 for Protection – Operation & Maintenance	CH	CHP150	5	Mon-Fri
L2	RTU540/560 Remote Terminal Unit Modification – System Engineering	CH	CHP176	5	Mon-Fri
L2	Relion®/SAM600/PCM600/ITT600 Digital Substation – Testing & Commissioning	CH	CHP158	5	Mon-Fri
L3	IET600/ITT600 for SAS600 Modification – System Engineering	CH	CHP194	10	Mon-Fri
L3	IET600/ITT600 for IEC 61850 Integration & Testing – System Engineering	CH	CHP191	5	Mon-Fri
L3	IET600 for IEC 61850 Integration with MicroSCADA - System Engineering	CH	CHP195	10	Mon-Fri
L3	Digital Substation upgrade for ABB Engineers SAS600 – System Engineering & Testing <i>(only Hitachi internal)</i>	CH	CHS151	5	Mon-Fri
L3	IET600 Expert for IEC 61850 Integration with MicroSCADA - System Engineering <i>(only Hitachi internal)</i>	CH	CHP196	10	Mon-Fri
L3	SAS600 advanced Integration and Testing - System Engineering <i>(only Hitachi internal)</i>	CH	CHP197	10	Mon-Fri
	<b>Product (Communication Networks)</b>				
	<i>Price request</i>				
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 as Operator	CH	CHP593	3	Mon-Wed
L2	FOXMAN-UN Network Management System as Administrator	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	AFS600 Switch Family	CH	CHP558	3	Mon-Wed
L2	AFF Firewall	CH	CHP560	2	Thu-Fri
L1	SV9500 Appliance Server Telephone System	CH	CHP588	5	Mon-Fri
L1	SV9100 Telephone System	CH	CHP590	5	Mon-Fri
L1	UNEM as Operator	UK	UKP593	3	Tue-Thu
L2	UNEM as Administrator	UK	UKP594	2	Tue-Wed
L1	XMC20 for SDH Networks	UK	UKP595	5	Mon-Fri
L1	XMC20 for MPLS-TP Networks	UK	UKP598	5	Mon-Fri

Level	Title	Country	No.	Days	Remark
	<b>On Request (Power Systems, Substation Automation &amp; Protection)</b>				
L1	Protection for Electrical Power Systems – Fundamentals	CH	CHP102	5	on request
L1	Schutz in elektrischen Netzen – Grundlagen	CH	CHP102-D	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
	<b>On Request (Communication Networks)</b>				
	<i>Price request</i>				
L1	Utility SDH Networks – Fundamentals	CH	CHP520	2	on request
L1	Ethernet Switching and TCP/IP – Introduction	CH	CHP522	2	on request
L1	Wireless Communication – Introduction	CH	CHP523	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
L2	AFR Router	CH	CHP559	3	on request
L1	AFSView Network Management System	CH	CHP561	1	on request
L1	Tropos Wireless Mesh Networks	CH	CHP582	3	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	ETL600 R4 for Experienced ETL600 R3 Users	CH	CHP569	2	on request
L1	iS3000 SIP@NET Telephone System	CH	CHP586	5	on request
L2	iS3000 SIP@NET Trunk Routing and Advanced Features	CH	CHP587	5	on request
L1	SV9500 Standard Server Telephone System	CH	CHP589	5	on request

  = Public holidays   
 E = English   
 G = German   
 F = French   
   = actual available catalogue courses / status 2021-02-05

(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/setc.

**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 attended 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](#)

Hitachi Power Grids Switzerland AG      2021-05-05  
 Learning Center Grid Automation  
 Brüggerstrasse 72, CH-5400 Baden      WebPage: Learning center Grid Automation Switzerland  
 Switzerland      © Hitachi Ltd. 2021. All rights reserved.