

Raffael Niemczyk PITZ Physics Seminar Online, 13.01.2022





Shift operation at PITZ

Assessment of operator development: From rookie to expert

- Measurements major pillar of research work at PITZ
- Lot of (working) time on shift duty
- Shift leader = experienced operator
- Operator start without prior PITZ-teaching
 - Zoom teachings for all in addition
 - > Learning-by-doing approach to teaching people

All are 'on the same page'

Often performed procedures taught well

Learning-by-doing approach

- Overview of measurement procedures (rather) lacking
- No track of OP's progress
 - > Feedback for group leader/shift leaders missing
 - > Feedback for OP also missing!



Online, January 13th, 2022

Introducing: PITZ Operator Training Card

List of milestones to be reached, allows judgement all ways

- Introduction of PITZ Operator Training Card
 - > List of important procedures & measurements
 - > Progress is kept
 - > Fill in date & shift when procedure was performed for first time etc.
- Emphasis on **performing measurement**
 - Learning-by-doing approach
 - > Therefore: Let OP's do the work!

- Explanation of form:
 - > First time: OP doing measurement, shift leader walking OP through procedure
 - > 80% independently: One or two comments from shift leader during measurement
 - Fully independent: OP does it alone/ready for shift lead

PITZ Operator Training Card



Date of first shift:

Measurement/ Procedure	First time	80% independently	Fully independently
Z.Z. & Betriebsbuch			
Klystron ramping			
SMAC & LILI			
Dark current measurement			
VC2 image			
Laser BBA			
Charge measurement			
Emission curve			
QE map & M5/6			
OMA – LEDA			
OMA – HEDA1			
Bunch length measurement			
Fastscan			







Contact

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