Bloom's taxonomy

Self-Evaluation Matrix: Responsibility and Knowledge Levels

HPC Level	1 - Knowledge	2 - Comprehension	3 - Application	4 - Analysis	5 - Synthesis	6 - Evaluation
	Basic (I)	Intermediate (II)		Advanced (III)		Specialized (IV)
Gateways Documentation				Confluence Web Server	XDMoD CryoSparc Coldfront	OpenOnDemand
Language Pipelines		Fortran CUDA CI/CD Perl mongodb LAMMPS alphafold3 NAND CESM ANSYS gromacs openfoam	RUBY (eRUBY) NextFlow LLM PostgreSQL PyTorch Intel VTune Profiler JAX Totalview Intel SYCL OpenMP	Version Control (git / svn / github / bitbucket) make / cmake Snakemake Lua MPI / OpenMPI Tensorflow	Python Python Environment Conda Environment VSCode jupyter rstudio python-packages r-packages MySQL	JAVA C C++ Shell Script MATLAB Artificial Intelligence (Feature engineering)
Automation optional	Puppet Chef Salt warewulf MAAS AI Agent RAG N&N Supabase	AWS GCP MPLperf	Azure Ollama DeepSeek Quantum Computing Apache Sparck	DockerHUB docker singularity modulefiles Ansible SBGrid podman kubernetes slurm	slurm script slurm admin commands Change job priority Change job time limit Check user/PI allocation create reservation	Spack EasyBuild dnf apt
Linux Topics	Fortran compiler		NVHPC NVIDIA HPC SDK	Intel / Intel-oneAPI GCC compiler HPC Cluster Management (slurm script, admin commands, manager job priority and time limits, check user/PI allocation) GPU	Networking and Security (iptables, port, and service) Performance Testing/Tuning (code and pipelines) Time and Task Scheduling	Linux System Administration (LPIC-1 and LPIC-2), Automation and Scripting
HPC	HPC Scientific Software Engineer			HPC Sr. Scientific Software Engineer		

Level	Cognitive Process	Example Verbs	Description
1	Remember	define, list, recall	Retrieve basic facts or knowledge
2	Understand	explain, summarize, classi	Explain ideas or concepts
3	Apply	use, implement, solve	Use knowledge in new situations
4	Analyze	compare, differentiate, tes	Break information into parts to explore patterns
5	Synthesis	critique, judge, justify	Make judgments based on criteria or standards
6	Create / Evaluate.	design, construct, invent	Generate new ideas, products, or perspectives