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OR28 - Redesigning the Accelerator Operator Technical Training Program: A Modular and Collaborative Approach

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“The effective training of accelerator operators is essential for ensuring the smooth functioning of complex scientific facilities. This abstract highlights a successful redesign of the Accelerator Operator Technical Training Program, focusing on the reorganization of training materials, standardization of formats, and implementation of a collaborative content creation process. Recognizing the need for a more streamlined and accessible training program, the traditional approach was transformed into a modular structure, with topics categorized under umbrella themes. This reorganization allowed for easier navigation and enhanced the overall learning experience for participants.

To maintain consistency and clarity, each module was standardized with clearly defined learning objectives and a comprehensive list of skills to be acquired. This standardized format not only facilitated understanding but also provided a measurable framework for assessing trainee progress.

A workflow was established to guide the creation and maintenance of these modules, ensuring a systematic and efficient approach. This workflow encompassed content development, review, and updates, guaranteeing that the training materials remained up-to-date and aligned with evolving accelerator programs and lab practices.

An innovative aspect of this redesign was the incorporation of a crowdsourcing strategy for content creation. By engaging the entire operations group as well as other subject matter experts, the process became collaborative and inclusive. Experts helped vet the technical integrity of the information and provide valuable experiential insights while novice operators ensured the material was accessible at the introductory level needed to onboard new control room staff.

The implementation of a collaborative content creation process not only fostered engagement and ownership among the training participants but also significantly enhanced the group’s capacity to create technical training materials without overburdening any individual.

The modular structure, standardized formats, defined workflows, and collaborative content creation approach have resulted in an enhanced training experience, empowering operators with the necessary knowledge and skills to excel in their roles. The lessons learned from this redesign can be valuable for other organizations seeking to revamp their technical training programs in a similarly efficient and engaging manner.”

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