Personnel Training
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Preface

This regulatory document is part of the CNSC’s Human Performance Management series of regulatory documents, which also covers human performance programs and personnel certification. The full list of regulatory document series is included at the end of this document and can be found on the CNSC’s Web site at nuclearsafety.gc.ca/regulatory-documents

REGDOC-2.2.2, Personnel Training, sets out requirements and guidance for the analysis, design, development, implementation, evaluation, documentation and management of training at nuclear facilities within Canada, including the essential principles and elements of an effective training system.

As one of many sub-systems used within an organization’s management system, the training system supports the organization’s operational capability by training workers to perform their jobs effectively. A training system also permits organizations to respond rapidly when a performance or personnel issue can best be addressed by training.

In keeping with the CNSC’s regulatory philosophy and international practice, licensees are responsible for the safe operation of their respective nuclear facilities. They are therefore responsible for training and assessing their workers to ensure they are fully qualified to perform their duties in accordance with current regulatory requirements.

This document is intended to form part of the licensing basis for a regulated facility or activity. It is intended for inclusion in licences as either part of the conditions and safety and control measures in a licence, or as part of the safety and control measures to be described in a licence application and the documents needed to support that application.

**Important note:** Where referenced in a licence either directly or indirectly (such as through licensee-referenced documents), this document is part of the licensing basis for a regulated facility or activity.

The licensing basis sets the boundary conditions for acceptable performance at a regulated facility or activity, and establishes the basis for the CNSC’s compliance program for that regulated facility or activity.

Where this document is part of the licensing basis, the word “shall” is used to express a requirement to be satisfied by the licensee or licence applicant. “Should” is used to express guidance or that which is advised. “May” is used to express an option or that which is advised or permissible within the limits of this regulatory document. “Can” is used to express possibility or capability.

Nothing contained in this document is to be construed as relieving any licensee from any other pertinent requirements. It is the licensee’s responsibility to identify and comply with all applicable regulations and licence conditions.
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Personnel Training

1. Introduction

The purpose of training in the nuclear industry is to ensure that workers are competent and qualified to perform the duties of their position. As required by the *General Nuclear Safety and Control Regulations*, workers shall be trained to carry on the licensed activity.

A training system provides the basis for the analysis, design, development, implementation, evaluation, documentation and management of training for workers at nuclear facilities. It provides a method for meeting the training needs of workers and ensuring that the right people receive the right training at the right time. With a training system as defined in this regulatory document, it can be demonstrated that all required knowledge, skills and safety-related attributes have been attained, through the process of performance-based assessment and program evaluation. Without a training system, there is a risk that important elements of training will be omitted and the operating state of the facility will not be reflected in the training programs.

1.1 Purpose

This regulatory document sets out the requirements of the Canadian Nuclear Safety Commission (CNSC) for licensees regarding the development and implementation of a training system. It also provides guidance on how these requirements should be met.

1.2 Scope

This regulatory document applies to workers engaged in licensed activities in nuclear facilities or anywhere that nuclear substances or prescribed equipment are produced, used, possessed, packaged, transported or disposed of. This includes workers in positions where the consequence of human error poses a risk to the environment, the health and safety of persons, or to the security of the nuclear facilities and of nuclear substances. The licensees shall define these positions in their training system governing documents.

1.3 Relevant legislation

The provisions of the *Nuclear Safety and Control Act* and regulations that are relevant to this regulatory document include:

- paragraph 12(1)(a) of the *General Nuclear Safety and Control Regulations*, which states every licensee shall “ensure the presence of a sufficient number of qualified workers to carry on the licensed activity safely and in accordance with the Act, the regulations made under the Act and the licence”
- paragraph 12(1)(b) of the *General Nuclear Safety and Control Regulations*, which states every licensee shall “train the workers to carry on the licensed activity in accordance with the Act, the regulations made under the Act and the licence”

2. Principles

The training system developed and implemented by each licensee shall adhere to the following two fundamental principles:
1. **Performance-oriented**: Training is preparation for performance on the job. All instruction that is subject to this regulatory document shall focus on essential knowledge, skills and safety-related attributes required to meet job requirements and nuclear-safety-specific needs throughout the lifecycle of the facility.

2. **Systematically developed**: Training shall be defined, produced and maintained through an iterative and interactive series of steps, leading from the identification of a training requirement to the confirmation that the requirement has been satisfied.

3. **Training Systems for Nuclear Facilities**

Licensees shall ensure workers engaged in licensed activities are qualified to do the work assigned to them through the use of a training system to systematically analyze, design, develop, implement, evaluate, document and manage new training and the revision of existing training, including continuing training. It shall be used whether the training is defined, designed, developed, implemented, evaluated, recorded and managed internally by licensees or externally through vendors or contractors.

The level of analysis, documentation and actions may vary in proportion to the relative importance to safety, safeguards and security; the magnitude of any hazard involved; the lifecycle stage of the facility; the mission of the facility; the particular characteristics of the facility; and any other relevant factors.

Licensees shall:

1. identify all performance requirements of a job or duty area by conducting a job analysis to determine all of the tasks involved
2. define and document the necessary general worker training, initial job training and continuing training requirements for workers, based on a task analysis of the knowledge, and skills required to perform each task and the safety-related attributes required to perform their duties
3. ensure that appropriate training is designed, developed and implemented to meet the qualification requirements
4. ensure that trainers meet and maintain documented qualification requirements, particularly in the areas of subject matter expertise and instructional skills
5. ensure that formal evaluations are used to confirm and document that all trained workers are qualified to perform their duties
6. implement a training change-management process that will systematically analyze procedural and equipment changes, changes in job descriptions, and operating experience feedback (including facility and industry-wide events), in order to identify changes to the tasks and task lists and to assess potential training implications leading to training modifications
7. ensure continuing training is provided to workers as deemed necessary through the job and task analyses processes and that it includes updates to training programs stemming from the change-management process as identified through the training needs analysis process
8. evaluate training regularly and incorporate the results of the evaluations into a training improvement process
9. ensure that workers’ records in support of training and qualifications are established and maintained
10. ensure that workers have a level of training related to nuclear safety corresponding to the
duties of their position and employment, including but not limited to radiation safety, fire
safety, on-site emergency arrangements, and conventional health and safety

4. **Record Management for a Training System**

Licensees shall develop and manage documentation related to all phases of their training
including analysis, design, development, implementation and evaluation.

Licensees shall maintain records on the training and qualifications of all workers. These records
shall be managed and controlled, and may be requested by CNSC staff at any time. Additionally,
workers’ supervisors and managers shall have immediate, unencumbered and readily available
access to the workers’ qualification records related to work being assigned or performed. The
training record for each worker, including temporary workers and contractors, shall include all
qualifications and certifications granted by or relied on by the licensee to fulfill requirements of
this document and that are related to the duties of the worker at that facility. Records shall include
expiration dates for time-sensitive qualifications and certifications, and all requalification or
recertification requirements.

5. **Guidance on the Systematic Approach to Training**

The systematic approach to training (SAT) is a proven and highly successful education and
training methodology, which licensees may adopt to meet the requirements in section 3.0 of this
regulatory document. SAT is also widely known as the instructional systems design model
(ISDM) or Analysis, Design, Development, Implementation and Evaluation (ADDIE) model.

An SAT-based training system provides interdependent functions consisting of analysis, design,
development, implementation and evaluation. This cyclic process (see figure 1) allows training to
be systematically analyzed, defined, designed, developed, implemented, evaluated, documented
and managed – in order to not only meet operational and organizational requirements, but also to
react quickly to changes in those requirements.
5.1 Analysis phase

The analysis phase is the foundation of any training course or training program and includes inputs from operational staff, end-users, subject-matter experts and training development experts. Its purpose is to specify the required outcome of the training in terms of essential on-the-job performance as defined by role documents, procedures or written instructions. The analysis should consider the following points:

- rationale and purpose of training
- scope of the training
- target audience
- training method
- location of the training
- timeframe for completion of the training

The fundamental processes of the analysis phase are briefly described in the following paragraphs.

5.1.1 Training needs analysis

A training needs analysis (TNA) is normally triggered by a performance gap or deficiency which has identified training as the solution. Engineering design and equipment changes, operational changes, revised procedures, and modifications to regulatory requirements are examples of changes that would generate performance gaps. A TNA systematically assesses the job performance requirements against actual existing performance (gap analysis) and identifies specific areas that require training.
5.1.2 Job and task analysis

To identify all performance requirements of a job or duty area, a job analysis should be conducted to determine all of the tasks involved with all states of the nuclear facility, including normal operations, accident conditions and emergencies. The end result of a job analysis is a list of tasks that should be completed to perform the job correctly. Task difficulty, importance and frequency are considered to determine which tasks need to be part of training and to determine the initial and continuing training content. Task analysis should be conducted to determine the method of task performance and associated knowledge, skills and safety-related attributes. While the knowledge and skills should be determined for each task, safety-related attributes need not be developed for each task but can be developed collectively and documented for a job or duty area.

5.1.3 Learning objectives

Terminal learning objectives (TLOs) are statements of the tasks that the workers must be able to demonstrate after completing the training. TLOs should be measurable and define exactly when, what and how well the trainee must be capable of performing on the job upon completion of the training.

A terminal learning objective should include:

- a performance statement: states the task to be performed
- a condition statement: describes conditions under which the performance must be completed
- standards: state the measurable criteria that describe how well the performance should be completed

5.1.4 Target audience analysis

A target audience analysis determines the numbers and categories of workers to be trained and, where possible, the characteristics of the individuals who will receive the training (e.g., current job experience and prior background, experience, education and training). This information ensures that the training is designed, developed and implemented at the correct level, and assists with determining any necessary training prerequisites.

5.2 Design phase

The design phase should include the selection and description of the training and an environment that will enable the trainees to achieve the TLOs determined in the analysis phase. The design phase starts with the results of the analysis phase and ends with a plan for the development of the training. The design phase takes the output from the analysis phase and specifies how the information will be presented and how the knowledge, skills and safety-related attributes will be tested.

The fundamental processes of the design phase are briefly described in the following paragraphs.

5.2.1 Trainee characteristics

As a result of the analysis phase, the target audience should have been broadly defined. During this phase, the trainee characteristics should be further described in terms of their entry-level knowledge, skills and safety-related attributes, and those characteristics likely to affect their responses to particular instructional activities. Information obtained in this process will guide subsequent decisions such as those regarding appropriate instructional sequences, methods and media, and help tailor the training to trainees’ needs and learning characteristics.
5.2.2 **Instructional program design**

The instructional program design determines the knowledge, skills and safety-related attributes required to perform a task. These knowledge, skills and safety-related attributes lead to enabling objectives (EOs), which document the knowledge, skills and safety-related attributes. These EOs are then grouped and sequenced into the order most suitable for learning.

5.2.3 **Enabling objectives**

EOs are the principal units of learning and constitute a major step towards achieving the associated TLOs. As sub-components of TLOs, EOs represent manageable units of work: units that are coherent in terms of logic, learning of work, and that have a suitable scope and are appropriate for testing learning progress. Like a TLO, an EO is composed of three essential parts:

- The performance statement: an observable action normally stated as one action associated with a single verb. If the action is complicated or if more than one verb is used, then the EO needs to be broken down further into other EOs with simple actions.
- The conditions statement: a description of the setting or conditions under which the task is to be performed. Ideally, the conditions should mirror those in the workplace where the operation is performed.
- The standard: one or more measurable criterion stating the level of acceptable performance of the task in terms of quantity, quality or time limitations. It should answer questions such as “How many?”, “How fast?” or “How well?”

5.2.4 **Learning assessment plan**

A learning assessment plan describes the use of formal evaluations within the qualification program. The learning assessment plan determines how progress towards, and achievement of, the required performance is checked and verified. While an assessment should be based upon the performance defined in the TLOs or EOs, limiting factors (such as time) may not permit direct observation of the full range of desired performance. The assessment plan describes how a valid and reliable sample of trainee performance will be measured and evaluated.

5.2.5 **Instructional strategies**

The instructional strategy is the combination of media, methods and environment used in the delivery of training. The advantages and disadvantages of each instructional strategy, as applied to the TLOs and EOs, should be examined to ensure that the most effective solution is selected to produce graduates capable of performing tasks as indicated in the TLOs.

5.2.6 **On-the-job training**

On-the-job training (OJT) requirements should be considered when one or more of the TLOs may not be suitable for traditional instructional methods. If OJT is necessary, then OJT learning objectives, complete with performance statements, conditions and standards, should be produced. Subsequently, each OJT learning objective should be formally assessed using on-the-job evaluation.
5.2.7 Training development plan

The training development plan documents the decisions made during the design phase. Outcomes and decisions regarding items covered in sections 5.2.1 through 5.2.6 should be documented and used during the development phase.

5.3 Development phase

The development phase involves the procurement or production of effective instructional materials in accordance with the training development plan.

The fundamental processes of the development phase are briefly described in the following paragraphs.

5.3.1 Procurement/production of instructional materials

Instructional materials should support the learning activities. Such items include instructor lesson plans, interactive courseware such as computer-based training and training aids of all types including equipment, references, job aids and testing materials. The instructional materials should include the following, where necessary:

- Trainee manuals: These are reference handbooks to be used and often retained by the trainees.
- Instructor guides: These are instructional specifications for use by the instructor during training preparation and delivery. They outline the specific training steps that must be used to satisfy the training development plan.
- Handouts: These additional aids can supplement the trainee manuals in areas identified as difficult and/or particularly important.
- Computer-based training or other media: These are to be used where they are the recommended solution based on the instructional analysis and the selection of the instructional strategy.
- Question banks and some sample tests: When used during the training, these should include guidance on where and when they should be used.

5.3.2 Assessment tests

Assessment tests, which address the requirement for formal evaluation, cover both progress and final testing. In general, there are two types and both should be developed.

Knowledge or cognitive assessments: Usually written, these tests can include multiple choice, multiple response, dichotomous or binary (e.g., yes/no; true/false), matching, resequencing, and open-ended questions.

Performance or skill-based assessments: These are practical tests based on realistic scenarios of the most important and significant skills and safety-related attributes derived from the TLOs and EOs.

5.3.3 Conduct of trials (pilot courses)

To assess the effectiveness of the training and related materials, these materials should be reviewed by subject-matter experts, tested with individuals who are representative of the target training audience, and approved by the appropriate managers. The training and instructional materials should be revised according to the findings of the trials.
5.4 Implementation phase

The implementation phase is to enable the trainees to successfully perform the tasks to the standards defined in the TLOs. This phase encompasses both the instructor preparation phase as well as the actual delivery of the training.

It should include:

- lesson plans based on the training development plan and the instructor guides prepared during the development phase
- set-up of the training environment
- continual monitoring to ensure that learning is taking place
- arrangements for follow-on training, where necessary

5.5 Evaluation phase

The evaluation phase involves the assessment of the effectiveness and efficiency of the training as delivered and verification of whether the trainees have mastered the TLOs and acquired the competence needed to perform the job safely.

The evaluation phase includes the following:

- Formal trainee evaluation: The trainees’ abilities to perform the tasks, as defined in the TLOs, should be measured through tests and assessments. This activity can be included as a process within the implementation phase.
- Content and delivery: All instructional activities are monitored so that corrective actions, including trainee evaluations, can be taken if necessary. Sources of feedback include the trainees, the instructors, the support staff and the responsible managers and supervisors.
- Effectiveness: This means the graduates’ ability to perform, in the workplace, the tasks for which they were trained. The primary sources of this information are the graduates and their supervisors. Additionally, information may be available through various sources ranging from needs assessments and lessons-learned reports to incident reports and rework statistics. Managers and supervisors should have continuous input to the training.
- Change management: In accordance with the principles of a SAT methodology, inputs such as new or revised regulatory requirements, engineering design and equipment changes, operational changes, revised procedures, modifications and operating experience feedback (including facility and industry-wide events) should be regularly fed into the appropriate processes through the analysis phase.
### Acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>CNSC</td>
<td>Canadian Nuclear Safety Commission</td>
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<tr>
<td>EO</td>
<td>enabling objective</td>
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<td>TLO</td>
<td>terminal learning objective</td>
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<tr>
<td>OJT</td>
<td>on-the-job training</td>
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<tr>
<td>SAT</td>
<td>systematic approach to training</td>
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<td>TNA</td>
<td>training needs analysis</td>
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Glossary

**continuing training**
A structured curriculum that maintains and enhances knowledge, skills and safety-related attributes, and that addresses areas such as equipment changes and procedure changes; skill weaknesses; infrequently used and difficult knowledge and skills, and lessons learned from operating experiences. Update training, requalification training and refresher training are also considered continuing training.

**course**
A series of learning events.

**duty area**
One of the job incumbent’s main areas of activity, or a grouping of closely related tasks.

**enabling objective (EO)**
A principal unit of learning that constitutes a major step towards achieving associated terminal learning objective(s). It consists of a performance statement, condition statement and a standard.

**instructional strategy**
The combination of media, methods and environment used in the delivery of training:

- method: the type of learning activity or instructional event
- media: the means of delivering instructional activities to the trainee, such as computers or printed texts
- environment: where learning activities take place; e.g., classroom, workplace, home

**job**
The work performed by the incumbent in a position, or by a group of incumbents in a position who perform essentially the same duties and tasks and require similar knowledge, skills and safety-related attributes to perform those tasks.

**knowledge**
The theoretical and/or practical understanding of a subject matter required to perform work.

**learning**
A change in behaviour that occurs as a result of the acquisition of knowledge, skills or safety-related attributes.

**lesson plan**
A guide used by instructors to ensure that training is specific and goal oriented.

**licensed activity**
An activity described in any of paragraphs 26(a) to (f) of the *Nuclear Safety and Control Act* that a licence authorizes the licensee to carry on.
licensing basis
A set of requirements and documents for a regulated facility or activity comprising:

- the regulatory requirements set out in the applicable laws and regulations
- the conditions and safety and control measures described in the facility’s or activity’s licence and the documents directly referenced in that licence
- the safety and control measures described in the licence application and the documents needed to support that licence application

nuclear facility
A facility as defined in the *Nuclear Safety and Control Act*.

on-the-job evaluation
Performance demonstration by a trainee of knowledge, skills, safety-related attributes and work practice standards required to perform a task using the approved procedure and the prescribed standards. The evaluation is conducted on the job.

on-the-job training
The training undertaken in the actual work environment to obtain required job-related knowledge and skills.

pilot course
A trial of an instructional program before it is implemented in training.

program evaluation
An assessment of the merit or value of an instructional program. Program evaluation is a systematic process designed to collect data to assess if instruction has satisfied the objectives of the instructional program in the most effective and efficient manner

principle
A comprehensive and fundamental law or doctrine that is universally accepted and serves as an essential characteristic of a system.

qualification
A recognized level of mastery of task performance in a work-related field, which is normally acquired through successful completion of training. It involves mastery of all the knowledge, skills and safety-related attributes required for successful task performance on the job.

requirement
Refers to a regulatory requirement which is an obligation of regulated persons as documented in the *Nuclear Safety and Control Act*, CNSC regulations, licences, decisions, certificates and orders made under the *Nuclear Safety and Control Act*.

safety-related attributes
Observable attributes of safety that reflect an organization’s values and behaviors related to safety that each worker is expected to exhibit consistently on the job.

skill
A mental and/or physical activity that requires a measured degree of proficiency. The words “skill” and “ability” are often used interchangeably.
**task**
A discrete segment of work having two or more steps, performed by an individual, which has a definite beginning and end, and which constitutes a logical and necessary part of a duty and/or job.

**task list**
The list of tasks that make up the requirements in a job or duty area. The list should also include critical supporting references that provide insight into the scope and difficulty of the tasks.

**teaching points**
The elements that make up an evaluation objective: discrete steps, skills, factors or concepts requiring separate demonstration or explanation that the trainee must master, learn or do.

**terminal learning objective (TLO)**
A statement that describes the expected performance upon completion of the training. It includes a description, in operational terms, of what the individual must do, the condition under which the performance must be completed, and the standard to which the performance must conform.

**test**
An event during which a trainee is asked to demonstrate an aspect of task performance, skill or knowledge.

**trainee characteristics**
The target population for whom the proposed training is intended as well as relevant information about the trainees concerned, such as the aptitudes, special skills, education, previous related training and personal data (e.g., age). Defining trainee characteristics is a component of a training system.

**trainee evaluation**
The assessment of progress made by participants during an instructional program (formative evaluation) and of their achievement at the end of the program (summative evaluation).

**training/instruction**
Learning that is provided in order to improve performance on the job.

**training development plan (often referred to as the training plan)**
A document that describes how the output of the analysis and design phases is intended to be used during the development to meet the requirements of the terminal learning objectives and enabling objectives.

**training program**
A structured collection of courses required to achieve a qualification or certification to perform work.

**training system**
A series of training-related processes and procedures that provides the basis for the analysis, design, development, implementation, evaluation, documentation and management of training programs and courses.

**vendor/contractor**
A person who is either contracted by a licensee to develop or deliver training, or who delivers training to a licensee’s staff with the intent that a required qualification would be granted upon completion of the training.
**workplace**
Any environment where work is done.
Additional Information

The following documents contain additional information that may be of interest to persons involved in training systems for nuclear facilities.


CNSC Regulatory Document Series

Facilities and activities within the nuclear sector in Canada are regulated by the Canadian Nuclear Safety Commission (CNSC). In addition to the Nuclear Safety and Control Act and associated regulations, these facilities and activities may also be required to comply with other regulatory instruments such as regulatory documents or standards.

Effective April 2013, the CNSC’s catalogue of existing and planned regulatory documents has been organized under three key categories and twenty-five series, as set out below. Regulatory documents produced by the CNSC fall under one of the following series:

1.0 Regulated facilities and activities

Series 1.1 Reactor facilities
1.2 Class IB facilities
1.3 Uranium mines and mills
1.4 Class II facilities
1.5 Certification of prescribed equipment
1.6 Nuclear substances and radiation devices

2.0 Safety and control areas

Series 2.1 Management system
2.2 Human performance management
2.3 Operating performance
2.4 Safety analysis
2.5 Physical design
2.6 Fitness for service
2.7 Radiation protection
2.8 Conventional health and safety
2.9 Environmental protection
2.10 Emergency management and fire protection
2.11 Waste management
2.12 Security
2.13 Safeguards and non-proliferation
2.14 Packaging and transport

3.0 Other regulatory areas

Series 3.1 Reporting requirements
3.2 Public and Aboriginal engagement
3.3 Financial guarantees
3.4 Commission proceedings
3.5 Information dissemination

Note: The regulatory document series may be adjusted periodically by the CNSC. Each regulatory document series listed above may contain multiple regulatory documents. For the latest list of regulatory documents, visit the CNSC’s Web site at nuctearsafety.gc.ca/regulatory-documents