

E-Learning Advisory Group (ELAG) Meeting

Chair : Ian Spiers, Terminology Education Specialist,
SNOMED International

MONDAY APRIL 15, 2024
LONDON, UNITED KINGDOM



Welcome

Agenda

1. ELAG Administration
2. Education Team update
3. Member Reports
4. Any other business



Agenda

1. **ELAG Administration**
2. Education Team update
3. Member Reports
4. Any other business

ELAG Administration

- Objectives of ELAG
- Members of ELAG
- Work Items for 2024



ELAG Administration Objective



- Provide an effective link between SI E-Learning activities and educational requirements and activities in Member countries
- Ensure that the MF reps of the Member countries represented on the Group are kept informed about prioritization and other advice on E-Learning given by the group
- Review and provide constructive feedback on new E-Learning materials and regularly revisiting existing materials to identify areas where changes are needed
- Facilitate effective sharing and reuse of materials by SI and Members to enable translation and localization while maintaining international consistency

ELAG Administration Members

ELAG Members

Ayala Pablo	Member Representative	Argentina
Aileen dela Pena	Member Representative	Australia
David Op de Beeck	Member Representative	Belgium
Janice Spence	Member Representative	Canada
Vasos Scoutellas	Member Representative	Cyprus
Louise Bie	Member Representative	Denmark
Rutt Lindström	Member Representative	Estonia
Mikko Härkönen	Member Representative	Finland
Vicky Fung	Member Representative	Hong Kong
Manisha Mantri	Member Representative	India
Yvonne Coughlan	Member Representative	Ireland
Kristina Dienine	Member Representative	Lithuania
Fareed Mohamad	Member Representative	Malaysia
Inge Soons	Member Representative	Netherlands
Aleksandar Zivaljevic	Member Representative	New Zealand
Leandro Luis	Member Representative	Portugal
Belen Delgado	Member Representative	Spain
Keng-Ling Wallin	Member Representative	Sweden
Pero Grgic	Member Representative	Switzerland
Patrick McLaughlin	Member Representative	United States
Tracy Simmonite	Member Representative	United Kingdom



ELAG Administration Declaration of Interest



Could all members of ELAG please

- Go to <http://snomed.org/elag>
- Click on ‘Group Members’
 - If you are an ELAG Member representative, and your name does not appear on the list, please email isp@snomed.org
- Click on ‘Declaration of Interests’
 - Add any potential conflicts of interest
 - Update the ‘Last updated’ date (even if no changes)



Note: If you don't have access, please email isp@snomed.org

- To advise on national and international priorities and activities needed to increase knowledge and skills related to SNOMED CT
- To review and provide advice on SNOMED CT courses
- To identify local languages required by each Member's SNOMED CT community for education
- Identify potential education delivery partners for each required language

ELAG Administration ELAG Work Items - 2024





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Education Team Update

- E&PS Team
- E-Learning Status
- Implementation Course Update



Education Team Update

Education Team

Liara Tutina



Education Lead

Louise Jones



eLearning Administrator

Kath Priest



Education and Product
Support Specialist

Ian Spiers



Terminology Education
Specialist

Anne Højen



Implementation
Support Specialist

Penny Livesay



Authoring Specialist

Jon Zammit



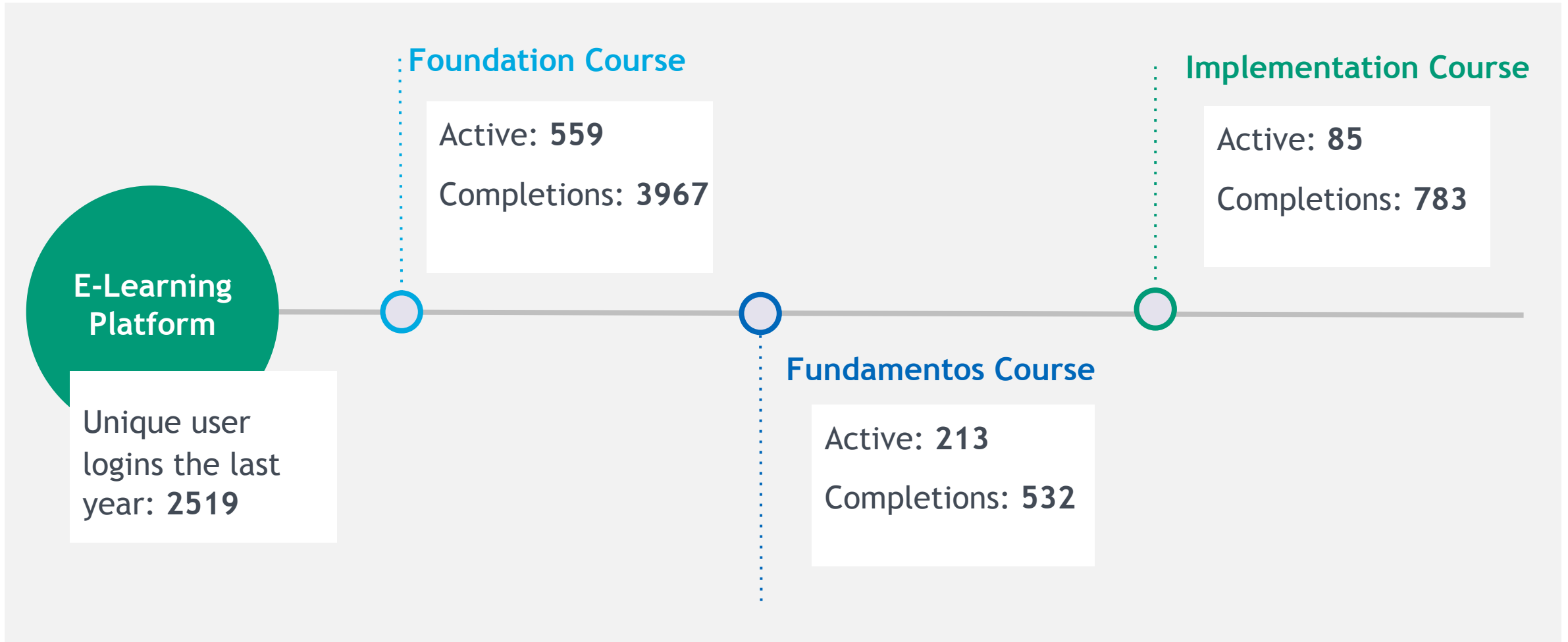
Education and Product
Support Specialist

E-Learning Courses

- SNOMED CT courses are all free for SNOMED International Members
- Fees for certification exams (50% discount for Members)
- Members - 1 free certification exam per year for each type of certification exam
- All learning pathways free to all
- Increased demand for courses - book early
- Authoring Courses
 - Currently AL1 course seats are offered by a first come, first served basis so book early (Capped)
 - Places retained for NRC's

Education Team Update

E-Learning Status



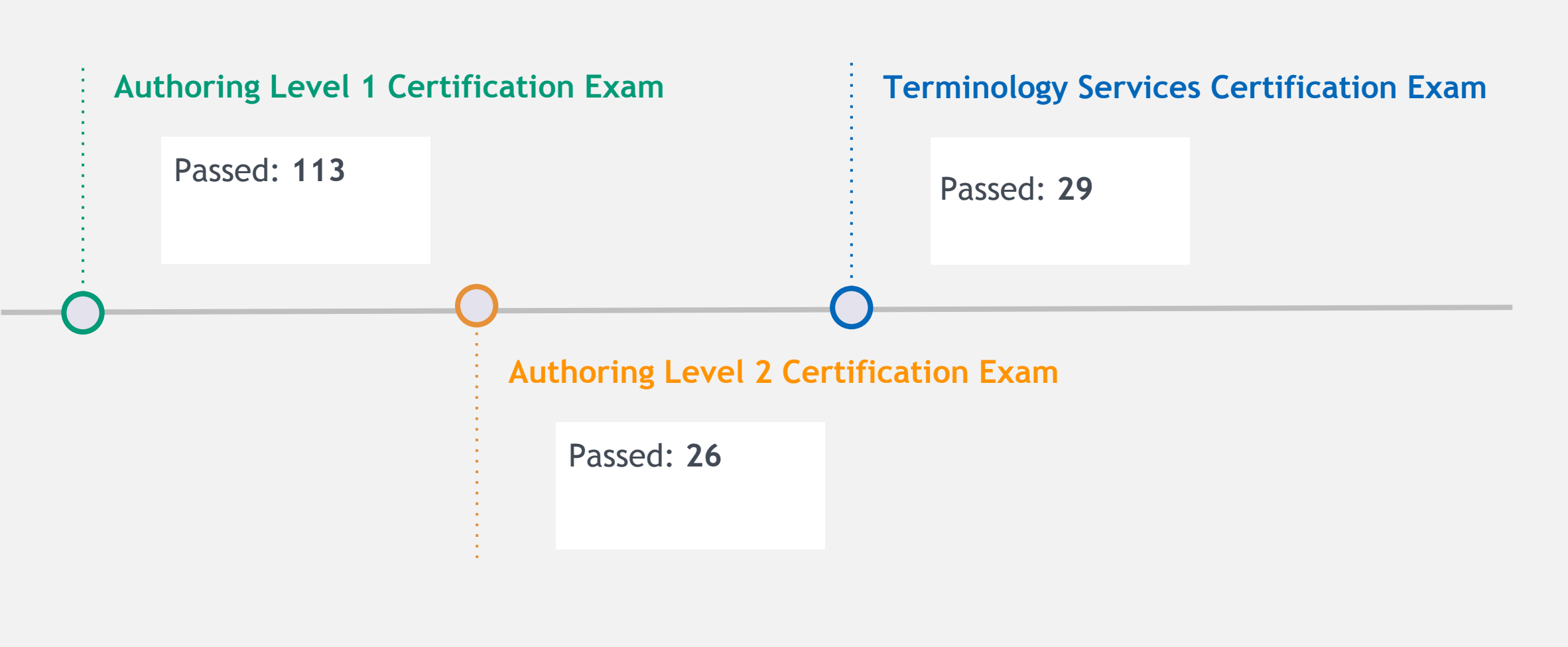
Education Team Update

E-Learning Status



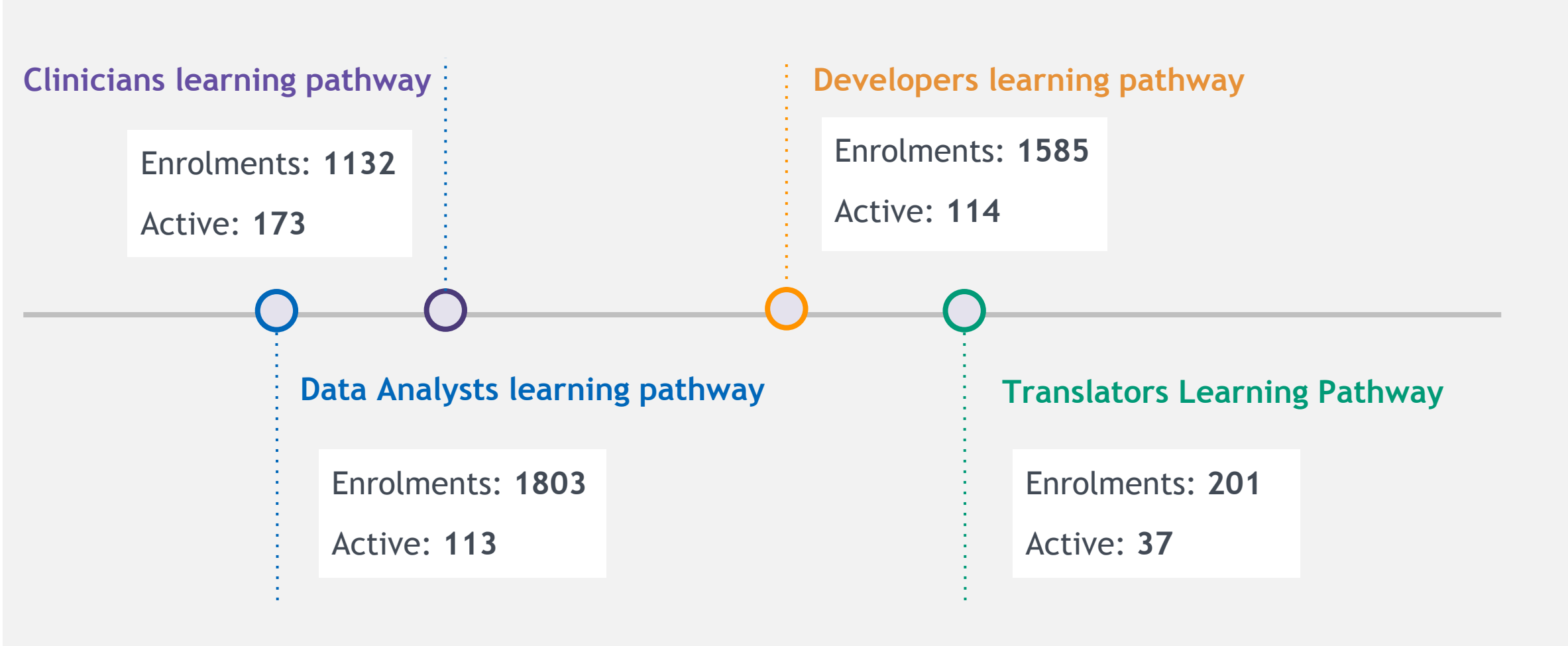
Education Team Update

E-Learning Status



Education Team Update

E-Learning Status



Education Team Update

E-Learning Course Ratings

Overall, how would you rate the course? 1-5

Course	Average Score	Score of 3 or above (%)
Foundation	4.3	99%
Foundation Spanish	4.1	98%
Implementation	4.2	98%
Terminology Services	4.2	96%
Authoring Level 1	4.4	99%
Authoring Level 2	4.6	100%

Education Team Update

Implementation Course Update

The screenshot displays the SNOMED CT Implementation Course interface. At the top, there is a navigation bar with links for Course, Settings, Participants, Grades, Reports, and More. Below the navigation bar is a main content area. On the left, there is a vertical sidebar with a course icon and the text 'Implementation Course'. The main content area contains a paragraph of text: 'The SNOMED CT Implementation course offers you the opportunity to embark on a journey to enrich your expertise in the effective implementation and utilization of SNOMED CT within clinical information systems. Please proceed to the course preparation section below for comprehensive information regarding this course, including its structure, content, and completion details.' Below the text is a grid of 20 course modules, each with a title and a representative image. The modules are: Course Preparation, Introduction to Implementation, Content and Features, SNOMED CT and Information Models, Expression Constraints, Subsets and Value Sets, Maps, Terminology Services, Data Capture, Data Analytics, Data Exchange, Clinical Decision Support, Postcoordination, Extensions and Editions, Logical Foundation, Logical Design, Release Files, Versioning, Maintenance, Translation, and Course Achievements.

Course Settings Participants Grades Reports More

Introduction to Implementation
Course and Features

SNOMED
Implementation
Course

ENR Implementation Principles

The SNOMED CT Implementation course offers you the opportunity to embark on a journey to enrich your expertise in the effective implementation and utilization of SNOMED CT within clinical information systems.

Please proceed to the course preparation section below for comprehensive information regarding this course, including its structure, content, and completion details.

Course Preparation Introduction to Implementation Content and Features SNOMED CT and Information Models Expression Constraints

Subsets and Value Sets Maps Terminology Services Data Capture Data Analytics

Data Exchange Clinical Decision Support Postcoordination Extensions and Editions Logical Foundation

Logical Design, Release Files, Versioning Maintenance Translation Course Achievements

Education Team Update

Implementation Course Changes



Implementation Basics
(mandatory)

Introduction to Implementation

Content and Features



General Implementation and Customization

SNOMED CT and Information models

Expression constraints

Subsets and Value sets

Maps

Terminology services

Skills Assessment
+ Certificate

EHR Implementation Principles

Data capture

Data analytics

Data exchange

Postcoordination

Clinical Decision Support

Skills Assessment
+ Certificate

Extension Management

Extensions and Editions

Logical model, release files
and versioning

Translating SNOMED CT

Maintenance

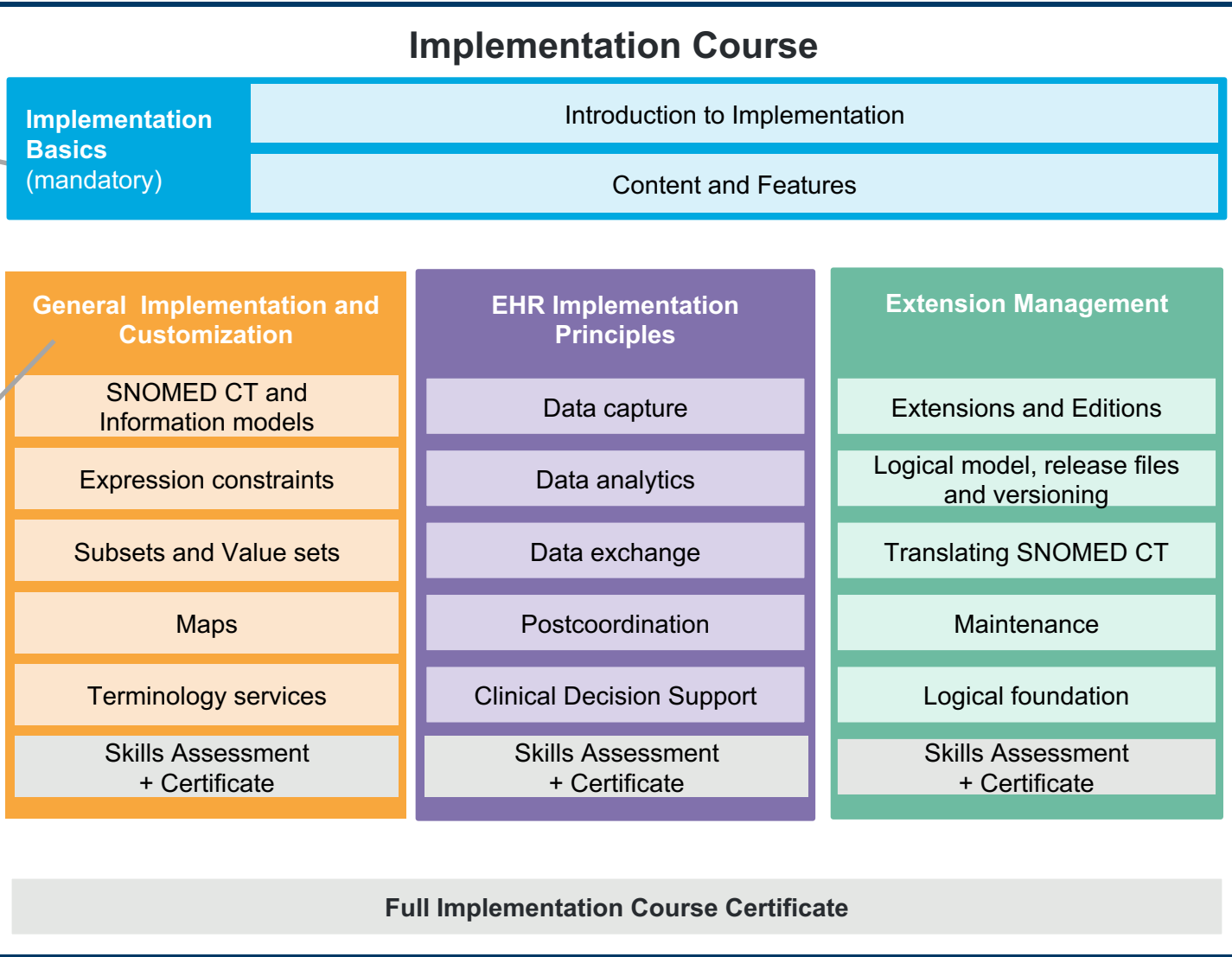
Logical foundation

Skills Assessment
+ Certificate

Full Implementation Course Certificate

Education Team Update

Implementation Course Changes



Education Team Update

Implementation Course - What's new?



Expression Constraints

Practical exercises using the SNOMED CT browser



Subsets and Value Sets

Practical exercises using the SNOMED International Refset Tool



Maps

Practical exercises using Snap2SNOMED

Education Team Update

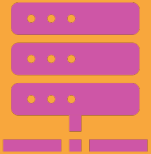
Implementation Course - What's new?



SNOMED CT and Information Models

Practical exercises using the terminology binding demonstrator

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Terminology Services

Practical exercises using an Application Programming Interface that communicates with a terminology server.

Education Team Update

Implementation Course - What's new?

The screenshot shows the SNOMED International website. At the top left is the SNOMED International logo with the tagline 'Leading healthcare terminology, worldwide'. The navigation menu includes 'Home', 'Services', 'Adoption journey', 'Implementation process', 'Implementation maturity', 'Tooling', and 'Translation'. A search bar and a language dropdown (set to EN) are also visible. The main content area features a large heading 'Implementation Demonstrators' and a sub-heading 'Discover our diverse range of SNOMED CT demonstrators, designed to showcase the best practice principles of SNOMED CT implementations and provide captivating demonstrations of SNOMED CT in action'. Below this is a large image of a person pointing at a screen displaying a map and data. A text box below the image reads: 'Whether you're a healthcare professional seeking to optimize your clinical workflows, a developer looking to harness the power of standardized clinical terminology, or a healthcare organization striving for seamless interoperability, our demonstrators offer valuable insights and practical examples. Explore the endless possibilities of SNOMED CT with our user-friendly tools and resources, and unlock the potential for improved patient care and data exchange.' At the bottom, there are five colored boxes, each representing a different demonstrator: 'UI Demonstrator' (Search and data entry with SNOMED CT), 'Map Demonstrator' (Explore the maps from SNOMED CT to ICD), 'Allergy Documentation' (Using SNOMED CT and FHIR), 'Terminology Binding' (Link data entry controls to SNOMED CT value sets), and 'Postcoordination' (Explore how SNOMED CT expressions can be created and processed). A red circular arrow icon and a blue circular arrow icon are located at the bottom right of the page.

Education Team Update

Implementation Course - Next Steps

Education Team

- Continue with the development of EHR Implementation Principles and Extension Management streams.

Second Review Stage – End of June

Module	Reviewer(s) Name
Expression Constraints	Keng Ling – Sweden, Marie Alexandra - Belgium
Subsets and Value Sets	Inge Soons - NL, Pete Turnbull - UK, Keng Ling - Sweden
Maps	Trine – Norway, Pete Turnbull - UK
SNOMED CT and Information Models	Inge Soons - NL, Marie Alexandra
Terminology Services	Pete Turnbull - UK

Education Team Update

Education partnerships

SNOMED International is interested in Education partnerships

Please send enquiries to elearning@snomed.org



Education Team Update

E-Learning Sharing

SNOMED International can share course content with members to enable reuse and translation of material

Please send enquiries to elearning@snomed.org and we can provide the material



Education Team Update

E-Learning Sharing

The screenshot shows the SNOMED International website's Member Education Area. The header includes the SNOMED International logo with the tagline "Leading healthcare terminology, worldwide", navigation menus for "ABOUT", "ENROL", "LEARN", "VIEW", and "CONTACT", and a language dropdown set to "English (en)". A breadcrumb trail reads "Home / My courses / Member Education". A dropdown menu is open under "VIEW", listing "Document Library", "Presentation Library", "Starter Tutorials", "Member Education Resources", and "中文基础课程". The main heading is "Member Education". Below it, a welcome message states: "Welcome to the Member Education Area. This area contains links to SNOMED CT education services and materials developed and provided by SNOMED International Members. For links to presentations from previous SNOMED CT Expos please refer to <http://snomed.org/expo>." A grid of ten country flags is displayed, each with a label: Australia, Belgium, Canada, Finland, India, Netherlands, Republic of Korea, Switzerland, United Kingdom, and Uruguay.



Agenda

1. ELAG Administration
2. Education Team update
3. **Member Reports**
4. Any other business

Member reports

- Review and discuss
 - National Education Activities
 - Priorities and Requirements for Education
 - Feedback on SNOMED International Courses
 - Potential Education Delivery Partners
 - Topics, you would like us to discuss



Member Reports

Questions in Focus - Thank you for responding to the ELAG survey

- What **SNOMED CT education activities** have been planned or introduced in your region since our last meeting?
- What are the **priorities and requirements** for SNOMED CT education offerings in your country?
- Any Feedback on **SNOMED CT eLearning Experiences?**
- What are the **languages** required for education to drive adoption of SNOMED CT in your region?
- Any Potential **Education Delivery Partners?**

Objective

- Share experiences and discuss education activities and approaches
- Identify approaches to support national stakeholders in acquiring the knowledge required to implement and use SNOMED CT

Member Reports

What SNOMED CT education activities have been planned or introduced in your region since our last meeting?

Belgium (David)

- Workshops about terminology servers/Snowstorm for hospitals in the context of a specific programme (data capabilities and data innovation).
- 3 "external" domain experts will follow the authoring course in the context of opening up the Authoring Platform to external authors

Finland (Mikko)

- Finalization and promoting SCT Foundation Course in Finnish
- SNOMED CT webinar (half day) in December 2023

Member Reports

What SNOMED CT education activities have been planned or introduced in your region since our last meeting?

Canada (Janice)

- Planning for 24/25 as part of our Interoperability Roadmap: to create/update/leverage education materials as a toolkit:
- Interoperability Standards Adoption Drivers:
 - Value proposition, Benefits, Use cases, Standards Selection Process, Standards Selection Guidance, Technical specifications/implementation Guides development and maintenance, Implementation Guidelines & Best practices, Change management best practices and support, Vendor engagement and support.

Member Reports

What SNOMED CT education activities have been planned or introduced in your region since our last meeting?

Denmark (Lousie)

- Several employees in the NRC as well as a number of affiliates have taken the new Foundation Course.
- One employee in the NRC has taken the AL1 course.
- At our national SNOMED CT conference in the autumn both the NRC and Anne Høyen from SNOMED International made an introduction to the new SNOMED CT E-Learning Platform and encouraged the conference participants to enrol in the E-Learning activities that are offered there.

Sweden (Keng Ling)

- Educational activities initiated by the NRC:
 - Vitalis (Nordic e-health Conference, May 2024),
 - Swedish Pathology Annual meeting (May 2024),
 - Implementation seminarium (Sept 2024).

Member Reports

What SNOMED CT education activities have been planned or introduced in your region since our last meeting?

Netherlands (Inge)

- Our learning trajectory for training external terminologists has gotten more shape:
 - In January, a group of 5 students has started, coming from different organisations (Public Health, quality registries, data processors). Two of them are now enrolled in the Authoring Course level 1.
 - Late March, two previous students have finished the Authoring Course level 1 and have successfully completed the exam. They are now completing the last modules of the national course.
 - In December 2023, the first 'external medical terminologist' has 'graduated'. She is working at Palga, the national pathology foundation, where she is coding pathology protocols with SNOMED.
- Overall, in this way we are expanding practical expertise within the Netherlands.

Member Reports

SNOMED CT education priorities and requirements?

Finland (Mikko)

- Promoting use of SNOMED CT content in Finland and supporting Univ. of Eastern Finland for their commitment to SNOMED CT Foundation Course.

Denmark (Louise)

- In Denmark we are content with the courses that are offered from SNOMED International. For the time being we do not have any special requirements. However, the NRC will continue to encourage our affiliates and staff to take the courses, especially we can see a need for further enrolments in the Implementation course.

Sweden (Keng-Ling)

- Authoring and Implementation of SNOMED CT courses

Member Reports

SNOMED CT education priorities and requirements?

USA (Nick)

- Currently we rely on SI Education material as offerings. We make all these education materials available via our webpages.

Netherlands (Inge)

- For 2024 we are focusing on two topics:
 - Educating about the National SNOMED Implementation Strategy that has been released by the government on 2nd of April 2024. Which includes chartering people for the external terminologist trajectory.
 - Education information analysts internally at Nictiz, so that the quality of terminology bindings will improve, and we can work together more efficiently.

Member Reports

SNOMED CT education priorities and requirements?

Belgium (David)

- Authoring Level 2 course. Technical courses/workshops about terminology servers.

Cyprus (Vasos)

- We are trying to inform potential users that can be self-educated through the free courses. We do not have yet any installation of SNOMED, but we are working on at least one.

Argentina (Marina)

- Implementation and terminology binding. A meaningful use of SNOMED CT.

Member Reports

SNOMED CT education priorities and requirements?

Canada (Janice)

- Implementation support, Maintenance support, Authoring, SNOMED CT Terminology model and binding for the Public Health Surveillance Community for immunization

Norway (Ole)

- Knowledge of what SNOMED CT is, basics of the concept model, and how to implement.

Member Reports

Feedback on SNOMED CT eLearning Experiences?

Denmark (Louise)

- The new Foundation Course works very well.
- Regarding the AL1 course we recently made a thorough feedback after taking it.
- We do not have any experience with the pathways yet.
- Communication with the SNOMED E-Learning Team is easy, and the Team is very helpful. With that said, one of our affiliates had trouble recently with a technical issue in the Foundation Course which probably should have been communicated directly to the course participants instead of only on the E-Learning website.

Belgium (David)

- Overall good

Member Reports

Feedback on SNOMED CT eLearning Experiences?

Argentina (Marina)

- The courses are very interesting and useful, but language is a barrier for a greater number of course registrations.

USA (Nick)

- I believe all the courses, pathways, and services are wonderful and do a great job at educating users.

Cyprus (Vasos)

- The new Foundation course is more attractive than the previous version. The disadvantage is that the user cannot have a printout of each session slides.

Member Reports

Feedback on SNOMED CT eLearning Experiences?

Sweden (Keng-Ling)

- Authoring course has been deemed useful and essential by stakeholders and those working within the NRC (excellent layout and educational content).

Norway (Ole)

- AL1 and AL2 for new NRC staff has been very important.
- eLearning pathway for translation has been useful for translation collaboration partner.
- Foundation is the course level in most demand outside NRC.
- From our perspective, we think that there is a gap between Foundation and AL1 where a potential pathway could be developed: To be able to interpret the content and functions of the different hierarchies (not authoring new content) and how to perform more advanced searches in the browsers, i.e. ECL.

Member Reports

Feedback on SNOMED CT eLearning Experiences?

Canada (Janice)

- Foundation : Good course redesign. Previously, the examples chosen were more "theoretical". Now they are more concrete and are immediately applicable.
Some parts are a little advanced for a foundation course. For example, notions about mapping and refsets are not necessary for the basic understanding of SNOMED CT.
- Authoring Level 1 : Great learning experience overall with helpful guides and hands on exercises. More assignment focused webinars would have been helpful. Some issues with the authoring platform in course and in the exam
- Authoring Level 2 : It's interesting to participate in a group activity and see the different points of view and arguments of the participants.
- Terminology Services : Some live webinars would have been helpful.

Member Reports

Feedback on SNOMED CT eLearning Experiences?

Netherlands (Inge)

- We have done a project with paramedics these months. We have gotten feedback from them that they found the English language and terms too hard to be able to understand the content well. Therefore, we should rethink translating the Foundation Course to Dutch.
- Overall, I have gotten good feedback on the Foundation Course and the Authoring Course level 1. Also, the short video clips that are available on various topics seem to be used frequently.

Member Reports

What are the languages required for education to drive adoption of SNOMED CT in your region?

Finland: Finnish, English, perhaps Swedish

Netherlands: Dutch and English

Belgium: Dutch and French (French version of some courses (work in progress))

USA: English and Spanish

Argentina: Spanish

Denmark: English

Canada : English and French

Sweden: English as the main language suffices for Swedish users of SNOMED CT.

Member Reports

What are the languages required for education to drive adoption of SNOMED CT in your region?

Norway: Norwegian would be desirable, but we don't have the resources to translate.

Cyprus: Greek Language

Member Reports

Potential Education Delivery Partners

Finland (Mikko)

- No except University of Eastern Finland

Sweden (Keng-Ling)

- Yes, there are several educational activities held in Swedish by SNOMED CT experts working at various University (Regional) Hospitals, members of specialist associations who have SNOMED competence and healthcare informatic consultants. The target group for such educational activities are medical professions, medical informatics specialists, researchers, register holders and hospital system developers.

USA (Nick)

- US NRC is able to make education materials available to users, but cannot create them ourselves

Member Reports

Potential Education Delivery Partners

Canada (Janice)

- Canada Health Infoway, CHIMA, University of Victoria, Université de Sherbrooke

Netherlands (Inge)

- Yes, we are aware. We have been in touch before with a University Medical Center in the Netherlands.

Member Reports

Topics, you would like us to discuss

Belgium (David): Link between courses/certifications and collaboration (projects) with NRC. e.g. we require external authors to follow the authoring level 1 course before having access to the authoring platform.

Denmark (Louise): We would like to discuss the need for remote proctoring at the certification exams.

Sweden (Keng-Ling): To include a library of practical use-cases from SNOMED-In-Action as PPT presentations or video be made available through e-learning as educational material.

Canada (Janice): How have others helped educate/guide stakeholders on implementation of SNOMED CT in digital health solutions.

Netherlands (Inge) : Update on the developments around the Implementation Course.



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Thank You

SNOMED
International