Content Development Course Outline

The information of the following relates to the original design and content of the three formal courses developed in 2015. For more up to date information see Content in the E-Learning Presentation Metadata space.

This course builds on knowledge gained during the SNOMED CT Foundation course. The objective is to provide a theoretical understanding of SNOMED CT content and its development and maintenance from a content authoring perspective. This course is intended to provide a foundational base upon which further knowledge and skills such as practical content authoring, subset creation, translation; extension management and mapping would be built.

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<tr>
<th>Id</th>
<th>Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>CA</td>
<td>CONTENT THEORY MODULE A</td>
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<tr>
<td>CA01</td>
<td>Controlled Vocabularies and Representing Clinical Meaning</td>
<td>A CDT Course presentation which introduces representing clinical meanings an overview of the principles upon which SNOMED CT was built. Through this presentation the participant will gain:</td>
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|     |                                            | • An understanding of the way in which clinical ideas (meanings) have been represented in electronic records  
• An understanding of the value of a structured representation of clinical meanings  
• Knowledge of statistical classifications and the differences between ICD-10 to SNOMED CT  
• Knowledge of the desiderata for controlled medical vocabularies and the additional desiderata for SNOMED CT  
  • The widely referenced paper *Desiderata for Controlled Medical Vocabularies in the Twenty-First Century* by James. J Cimino is source material. |
| CA02| SNOMED CT Content Hierarchies              | A CDT Course presentation which provides a high level overview of the SNOMED CT top level hierarchies. Through this presentation the participant will gain:                                                                                                     |
|     |                                            | • Knowledge of the scope of content present in SNOMED CT  
• Knowledge on where different clinical meanings are found in SNOMED CT  
• What the content in each if the hierarchies can be used to represent |
| CA03| SNOMED CT Concept Model                    | A CDT Course presentation which provides an overview of the the SNOMED CT Concept Model, the Diagramming Standard and the Machine Readable Concept Model. Through this presentation the participant will gain:                                                                            |
|     |                                            | • Knowledge of the different features of the Concept Model including:                                                                                                                                            |
|     |                                            |   • The root and top level concepts  
   • Subtype and attribute relationships  
   • Concept definition  
   • Relationship groups  
   • Primitive and fully defined concepts  
   • Domains and ranges  
   • Knowledge of the diagramming guidelines  
   • Introductory knowledge of the Machine Readable Concept Model |
| CA04| SNOMED CT Content Development Overview      | A CDT Course presentation which provides an introduction to content development. Through this presentation the participant will gain:                                                                                 |
|     |                                            | • An understanding of the basics of content development  
• An understanding of the types of content development  
• An awareness of IHTSDO content development  
• An awareness of the types of tools used for content development  
• An understanding of the types of resources used to support content development  
• An awareness of who is involved in content development |
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| CA05   | SNOMED CT Managing Requests for Content | A CDT presentation that looks at managing requests for content. Through this presentation the participant will gain:  
- An awareness of types of common content requests  
- Knowledge of the types of guidelines that assist requestors in submission of requests for new content or changes to content  
- An awareness of factors that impact who manages the request  
- An awareness of potential request submission pathways  
- Knowledge of content request management  
- An understanding of how to examine a request  
- An awareness of the potential request outcomes and an understanding of the importance of communicating with the requestor. |
| CB     | CONTENT THEORY MODULE B |  |
| CB01   | Clinical Finding: Content and Concept Model | A CDT presentation that looks at the Clinical Finding hierarchy. Through this presentation the participant will gain:  
- An understanding of what clinical meanings the concepts in this hierarchy represent  
- Knowledge on the common characteristics of the disorder and finding concepts  
- Knowledge of the Clinical Finding concept model attributes and the range of allowable values for each  
- Awareness of some of the modelling guidance available for Clinical Finding concepts covering areas such as  
  - Naming conventions  
  - Specific disorder types |
| CB02   | Procedure: Content and Concept Model | A CDT presentation that looks at the Procedure hierarchy. Through this presentation the participant will gain:  
- An understanding of what clinical meanings the concepts in this hierarchy represent  
- Knowledge of the Procedure concept model attributes and the range of allowable values for each  
- An understanding of what an attribute hierarchy is  
- Knowledge of the Evaluation Procedure concept model attributes and the range of allowable values for each  
- Awareness of some of the modelling guidance for Procedure concepts |
| CB03   | Anatomy: Content and Concept Model | A CDT presentation that looks at the Body Structure hierarchy. Through this presentation the participant will gain:  
- An understanding of what clinical meanings the concepts in this hierarchy represent  
- Knowledge of the current Anatomy concept model:  
  - Structure - Entire - Part (SEP) model  
  - Laterality attribute and the range of allowable values  
- Awareness of some of the modelling guidance and policies for anatomy concepts |
| CB04   | Context in SNOMED CT | A CDT presentation that looks at the context in relation to SNOMED CT. Through this presentation the participant will gain:  
- An understanding of context in relation to representing clinical meanings  
- Knowledge of how context is represented in SNOMED CT  
- An understanding of what clinical meanings the concepts in this hierarchy represent  
- Knowledge of the Situation with Explicit Context concept model attributes and the range of allowable values for each  
- Knowledge of some other context considerations  
  - The soft default for Clinical Finding and Procedure concepts  
  - Axis modification- what it is and the impact |
**CB05**  
**Creation of Content: Part 1**  
Part one of two CDT presentations that look at the principles of content creation. This first presentation provides the participant with the opportunity to develop an entry level theoretical foundation on what needs to be considered when creating a new concept.

- Choosing the hierarchy and semantic tag
- Creation of descriptions
  - Conventions
  - Acceptability
  - Case significance
  - Text definitions
- Modelling relationships
  - Is a
  - Attribute
  - Relationship groups
  - Definition status

The aim of this presentation is to give the participant a theoretical understanding of the principles of content creation.

**CB06**  
**Creation of Content: Part 2**  
Part two of two CDT presentations that look at the principles of content creation. This second presentation provides the participant the opportunity to further develop an entry level theoretical knowledge (in relation to authoring) of

- Description logic and classification
- Stated and inferred relationships
- Stated and inferred views
- The authoring form
- Modelling approaches
  - Proximal parent modelling
  - Proximal primitive parent modelling
- Necessary and sufficient conditions

**CC**  
**CONTENT THEORY MODULE C**  

**CC01**  
**Substance, Products and Physical Object: Concept Model**  
A CDT presentation that looks at the Substance, Product and Physical Object hierarchies. Through this presentation the participant will gain:

- Substance hierarchy
  - An understanding of what clinical meanings the concepts in this hierarchy represent
  - Modelling guidelines
- Pharmaceutical / biologic product hierarchy
  - An understanding of what clinical meanings the concepts in this hierarchy represent
  - Knowledge of the Pharmaceutical / biologic product concept model attributes and the range of allowable values for each
- Physical Object hierarchy
  - An understanding of what clinical meanings the concepts in this hierarchy represent
  - Drug-device combination concepts

**CC02**  
**Other SNOMED CT hierarchies**  
A CDT presentation that looks at the other SNOMED CT hierarchies. Through this presentation the participant will gain:

- Specimen hierarchy
  - An understanding of what clinical meanings the concepts in this hierarchy represent
  - Knowledge of the Specimen concept model attributes and the range of allowable values for each
- Event hierarchy
  - An understanding of what clinical meanings the concepts in this hierarchy represent
  - An awareness of where some current concept model work is being undertaken
| CC03 | Changes to Content | A CDT presentation that looks at the basic principles of making changes to released components. Through this presentation the participant will gain:  
   - An understanding of what changes can and can't be made to active released components including the following areas  
     - The hierarchy and semantic tag  
     - Descriptions  
       - Acceptable changes to terms  
       - Acceptability  
       - Case significance  
     - Relationship and relationship group changes  
     - Definition status changes  
   - An understanding of inactivation of components including  
     - A theoretical understanding of how to inactivate a component  
     - History mechanisms in RF2 (from an authoring perspective) |
| CC04 | Further Content Development considerations:Part 1 | A CDT presentation that looks at content development considerations and issues. Through this presentation the participant will gain:  
   - An understanding of  
     - intermediate primitives and the issues with creating these types of concepts.  
     - how logical definition issues can be resolved  
     - what needs to be considered when creating concepts that may be used as a target value in a relationship |
| CC05 | Review of Content | A CDT presentation that looks at the review process for content. Through this presentation the participant will gain:  
   - An understanding of  
     - the international content development review process  
     - of the review considerations for various types of content including:  
       - New descriptions  
       - Inactivated descriptions  
       - Definitions  
       - New concepts  
       - Changed concepts  
       - Inactivated concepts |
| CC06 | Further Content Development considerations:Part 2 | A second CDT presentation that looks at content development considerations and issues. Through this presentation the participant will gain:  
   - An understanding of  
     - the need for creation of and changes to editorial guidance.  
     - the need for maintenance  
     - some of the content quality assurance activities undertaken by SNOMED International. |