IHE Change Proposal

Tracking information:

|  |  |
| --- | --- |
| IHE Domain | QRPH and PCC |
| Change Proposal ID: | CP-PCC-0178 |
| Change Proposal Status: | Assigned |
| Date of last update: | January 10, 2014 |
| Person assigned: | Stacey Marovich; Lisa Nelson |

Change Proposal Summary Lisa Nelson/Stacey Marovich information:

|  |  |
| --- | --- |
| Add Occupational Data for Health subsection to Social History section template | |
| Submitter’s Name(s) and e-mail address(es): | Stacey Marovich ([awg8@cdc.gov](mailto:awg8@cdc.gov)); Lisa R. Nelson ([LisaRNelson@cox.net](mailto:LisaRNelson@cox.net)) |
| Submission Date: |  |
| Integration Profile(s) affected: | Profiles which utilize the Coded Social History Section. |
| Actor(s) affected: | Content Creator, Content Consumer |
| IHE Technical Framework or Supplement modified: | PCC TF vol 3 (currently vol 2) and PCC CDA Supplement |
| Volume(s) and Section(s) affected: | PCC TF vol 3 (currently vol 2) and PCC CDA Supplement |
| **\*\*\*PCC Note: The changes for this CP did not get added to the TF and CDA supplement during the 2014 cycle. Will add to the TF and CDA supplement during the 2015 cycle**  Rationale for Change:  NIOSH is developing a more complete and specific data to be collected about occupational information which is relevant for assessing health concerns. We need to evovle the Social History Section to allow the inclusion of this new information.We are request to add a new optional sub-section for Occupational Data for Health. We would like to NOT CHANGE the Social History templateID in making this change  Modifications to the Social History Observation are being suggested to clean up the current definition and example. (Should this be processed as a separate CP? | |

Replace Section 6.3.3.2.36 by the following:

**6.3.3.2.36 Coded Social History Section 1.3.6.1.4.1.19376.1.5.3.1.3.16.1**

**Table 6.3.3.10.S-1 Coded Social History Section**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Template Name** | | Coded Social History Section | | | |
| **Template ID** | | 1.3.6.1.4.1.19376.1.5.3.1.3.16.1 | | | |
| **Parent Template** | | IHE Social History Section 1.3.6.1.4.1.19376.1.5.3.1.3.16 | | | |
| **General Description** | | The social history section shall contain a narrative description of the person’s beliefs, home life, community life, work life, hobbies, and risky habits. It shall include Social History Observations. | | | |
| **Section Code** | | 29762-2, LOINC, “Social History” | | | |
| **Author** | | If not the author from the encompassing context, include author. Role and entity must be specified if not inherited. | | | |
| **Informant** | | If not the informant from the encompassing context, include informant. Role and entity must be specified if not inherited. | | | |
| **Subject** | | If not the subject from the encompassing context, include subject. Role and entity must be specified if not inherited. | | | |
| **Opt and Card** | **Condition** | **Data Element or  Section Name** | **Template ID** | **Specification Document** | **Vocabulary**  **Constraint** |
| **Subsections** | | | | | |
| O [0..1] |  | Occupation Data for Health Section | 1.3.6.1.4.1.19376.1.5.3.1.3.37 |  |  |
| **Entries** | | | | | |
| R [1..\* ] | PCC TF-3 6.3.3.2.36.X | Social History Observation | 1.3.6.1.4.1.19376.1.5.3.1.4.13.4 |  |  |

Add the following section 6.3.3.2.S1:

**6.3.3.2.S1 Occupational Data for Health Section** 1.3.6.1.4.1.19376.1.5.3.1.3.37

**Table 6.3.3.2.S1-1 Occupational Data for Health Section**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Template Name** | | Occupational Data for Health | | | |
| **Template ID** | | 1.3.6.1.4.1.19376.1.5.3.1.3.37 | | | |
| **Parent Template** | |  | | | |
| **General Description** | | The Occupational Data for Health section shall contain a narrative description of the person’s employment status and usual occupation, as well as the person’s history of employment. Employment information includes occupation and industry and may include the employer’s name and the location where work was performed.  When represented in a document containing a Social History section, the Occupational Data for Health section shall be encoded as a sub-section of the Social History section. | | | |
| **Section Code** | | <74166-0, LOINC, “Occupational Data for Health”> | | | |
| **Author** | | If not the author from the encompassing context, include author. Role and entity must be specified if not inherited. | | | |
| **Informant** | | If not the informant from the encompassing context, include informant. Role and entity must be specified if not inherited. | | | |
| **Subject** | | If not the subject from the encompassing context, include subject. Role and entity must be specified if not inherited. | | | |
| **Opt and Card** | **Condition** | **Data Element or  Section Name** | **Template ID** | **Specification Document** | **Vocabulary**  **Constraint** |
| **Entries** | | | | | |
| R2 [0..1] | PCC TF-3  6.3.3.2.36.X1 | Occupational Data for Health Organizer | 1.3.6.1.4.1.19376.1.5.3.1.4.20 | PCC TF-3  6.3.3.2.S1.1 |  |

**6.3.3.2.S1.1 Occupational Data for Health Section <74166-0>**

[section: templateId 1.3.6.1.4.1.19376.1.5.3.1.3.37 (open)]

The Occupational Data for Health section describes all aspects of the employment history. It may contain the current employment status, the usual occupation (longest held occupation) which may include the present duration for that job, or the employment history which may include the employer and places where the work was performed.

1. **SHALL** contain exactly one [1..1] **templateId** such that it
   1. **SHALL** contain exactly one [1..1] **@root**="1.3.6.1.4.1.19376.1.5.3.1.3.37".
2. **SHALL** contain exactly one [1..1] **code/@code**="74166-0" Occupational Data (CodeSystem: LOINC 2.16.840.1.113883.6.1).
3. **SHALL** contain exactly one [1..1] **title** .
4. **SHALL** contain exactly one [1..1] **text**.
5. **MAY** contain zero or one [0..1] **entry** such that it
   1. **SHALL** contain exactly one [1..1] 1.3.6.1.4.1.19376.1.5.3.1.4.20 Occupational Data For Health Organizer.

<section>

…

Need snippet

…

</section>

**Figure 6.3.3.2.S1-1: Occupational Data for Health Section example**

Add the following section 6.3.4.E1 Occupational Data For Health Organizer:

**Table 6.3.4.E1-1 Occupational Data For Health Organizer Entry 1.3.6.1.4.1.19376.1.5.3.1.4.20**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Template Name** | | Occupational Data For Health Organizer | | |
| **Template ID** | | 1.3.6.1.4.1.19376.1.5.3.1.4.20 | | |
| **Parent Template** | |  | | |
| **General Description** | | This organizer holds information about a person’s occupation. It organizes the employment status, usual occupation and usual industry along with durations, and history of occupation information (which includes occupation and employer with industry, and work hours and workshift) into a standard structure. | | |
| **Class/Mood** | **Code** | | **Data Type** | **Value** |
| ClassCode=  “CLUSTER”  MoodCode=  “EVN” | Code = 74166-0  Display Name = Occupational Data for Health  CodeSystem = 2.16.840.1.113883.6.1  CodeSystemName=LOINC | | Organizer |  |

**6.3.4.E1 Occupational Data For Health Organizer**

[organizer: templateId 1.3.6.1.4.1.19376.1.5.3.1.4.20 (open)]

An Occupational Data for Health Organizer is a clinical statement about the subject’s employment status, usual occupation and history of occupations.

1. **SHALL** contain exactly one [1..1] **@classCode**="CLUSTER" CLUSTER (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood 2.16.840.1.113883.5.1001).
3. **SHALL** contain exactly one [1..1] **templateId** such that it
   1. **SHALL** contain exactly one [1..1] **@root**="1.3.6.1.4.1.19376.1.5.3.1.4.20".
4. **SHALL** contain at least one [1..\*] **id**.
   1. The first id represents this specific globally unique occupational data for health organizer.
5. **SHALL** contain exactly one [1..1] **code**.
   1. **SHall** be 74166-0 (Occupational Data for Health) from LOINC (codeSystem 2.16.840.1.113883.6.1).
6. **SHALL** contain exactly one [1..1] **statusCode**="completed" Completed (CodeSystem: ActStatus 2.16.840.1.113883.5.14).
7. **SHALL** contain exactly one [1..1] **effectiveTime**.
   1. Where EffectiveTime/low SHALL represent the earliest point in time for any occupation data in the organizer.
   2. Where effectiveTime/high SHALL represent the latest point in time for any occupation data in the organizer, consequently the last point in time when information in the organizer was updated.
8. **SHOULD** contain zero or one [0..1] **component**.
   1. The component/@typeCode **SHALL** be “COMP”.
   2. The sequenceNumber **SHALL** be 1.
   3. SHALL contain exactly one [1..1] Employment Status Organizer (1.3.6.1.4.1.19376.1.5.3.1.4.20.1).
9. **SHOULD** contain zero or one [0..1] **component**.
   1. The component/@typeCode **SHALL** be “COMP”.
   2. The sequenceNumber **SHALL** be 2.
   3. SHALL contain exactly one [1..1] Usual Occupation and Industry Organizer (1.3.6.1.4.1.19376.1.5.3.1.4.20.2).
10. **MAY** contain zero or one [0..1] **component**.
    1. The component/@typeCode **SHALL** be “COMP”.
    2. The sequenceNumber **SHALL** be 3.
    3. SHALL contain exactly one [1..1] History of Occupation and Industry Organizer (1.3.6.1.4.1.19376.1.5.3.1.4.20.3).

Add the following section 6.3.4.E2 Employment Status Organizer:

**Table 6.3.4.E2-1 Employment Status Organizer Entry**

1.3.6.1.4.1.19376.1.5.3.1.4.20.1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Template Name** | | Employment Status Organizer | | |
| **Template ID** | | 1.3.6.1.4.1.19376.1.5.3.1.4.20.1 | | |
| **Parent Template** | |  | | |
| **General Description** | | This organizer holds information about a person’s employment status over time. It may hold current as well as prior employment status entries. | | |
| **Class/Mood** | **Code** | | **Data Type** | **Value** |
| ClassCode=  “CLUSTER”  MoodCode=  “EVN” | Code = 74165-2  Display Name = History of Employment Status  CodeSystem = 2.16.840.1.113883.6.1  CodeSystemName=LOINC | | Organizer |  |

**6.3.4.E2 Employment Status Organizer**

[organizer: templateId 1.3.6.1.4.1.19376.1.5.3.1.4.20.1 (open)]

An Employment Status Organizer holds clinical statements about the subject’s employment status over time.

1. **SHALL** contain exactly one [1..1] **@classCode**="CLUSTER" CLUSTER (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood 2.16.840.1.113883.5.1001).
3. **SHALL** contain exactly one [1..1] **templateId** such that it
   1. **SHALL** contain exactly one [1..1] **@root**="1.3.6.1.4.1.19376.1.5.3.1.4.20.1".
4. **SHALL** contain at least one [1..\*] **id**.
   1. The first id represents this specific globally unique employment status organizer.
5. **SHALL** contain exactly one [1..1] **code**.
   1. **SHall** be 74165-2 (History of Employment Status) from LOINC (codeSystem 2.16.840.1.113883.6.1).
6. **SHALL** contain exactly one [1..1] **statusCode**="completed" Completed (CodeSystem: ActStatus 2.16.840.1.113883.5.14).
7. **SHALL** contain exactly one [1..1] **effectiveTime**.
   1. Where EffectiveTime/low SHALL represent the earliest point in time for any data in the organizer.
   2. Where effectiveTime/high SHALL represent the latest point in time for any data in the organizer, consequently the last point in time when information in the organizer was updated.
8. **SHall** contain one or more [1..\*] **component**.
   1. The component/@typeCode **SHALL** be “COMP”.
   2. SHALL contain exactly one [1..1] Employment Status Observation (1.3.6.1.4.1.19376.1.5.3.1.4.20.4).

Add the following section 6.3.4.E3 Usual Occupation and Industry Organizer:

**Table 6.3.4.E3-1 Usual Occupation and Industry Organizer Entry 1.3.6.1.4.1.19376.1.5.3.1.4.20.2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Template Name** | | Usual Occupation and Industry Organizer | | |
| **Template ID** | | 1.3.6.1.4.1.19376.1.5.3.1.4.20.2 | | |
| **Parent Template** | |  | | |
| **General Description** | | This organizer holds information about a person’s usual occupation, usual industry and the durations associated with each. A person’s usual occupation is the occupation they have held for the longest combined duration of time over the person’s history of employment. The usual industry is the industry where they have been employed for the longest combined duration of time over the person’s history of employment.  This organizer may hold current as well as prior observations about their usual occupation and usual industry. | | |
| **Class/Mood** | **Code** | | **Data Type** | **Value** |
| ClassCode=  “CLUSTER”  MoodCode=  “EVN” | Code = 74164-5  Display Name = History of Usual Occupation and Usual Industry  CodeSystem = 2.16.840.1.113883.6.1  CodeSystemName=LOINC | | Organizer |  |

**6.3.4.E3 Usual Occupation and Industry Organizer**

[organizer: templateId 1.3.6.1.4.1.19376.1.5.3.1.4.20.2 (open)]

A Usual Occupation Organizer holds clinical statements about the subject’s usual occupation and usual industry.

1. **SHALL** contain exactly one [1..1] **@classCode**="CLUSTER" CLUSTER (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood 2.16.840.1.113883.5.1001).
3. **SHALL** contain exactly one [1..1] **templateId** such that it
   1. **SHALL** contain exactly one [1..1] **@root**=" 1.3.6.1.4.1.19376.1.5.3.1.4.20.2".
4. **SHALL** contain at least one [1..\*] **id**.
5. **SHALL** contain exactly one [1..1] **code**.
   1. **SHall** be 74164-5 (History of Usual Occupation) from LOINC.
6. **SHALL** contain exactly one [1..1] **statusCode**="completed" (CodeSystem: ActStatus 2.16.840.1.113883.5.14).
7. **SHALL** contain exactly one [1..1] **effectiveTime**.
   1. Where EffectiveTime/low SHALL represent the earliest point in time for any data in the organizer.
   2. Where effectiveTime/high SHALL represent the latest point in time for any data in the organizer, consequently the last point in time when information in the organizer was updated.
8. **SHall** contain one or more [1..\*] **component**.
   1. The component/@typeCode **SHALL** be “COMP”.
   2. SHALL contain exactly one or more [1..\*] Usual Occupation and Industry Observation (1.3.6.1.4.1.19376.1.5.3.1.4.20.5).

Add the following section 6.3.4.E4 History of Occupation Organizer:

**Table 6.3.4.E4-1 History of Occupation Organizer Entry 1.3.6.1.4.1.19376.1.5.3.1.4.20.3**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Template Name** | | | | History of Occupation Organizer | | | | | | |
| **Template ID** | | | | 1.3.6.1.4.1.19376.1.5.3.1.4.20.3 | | | | | | |
| **Parent Template** | | | |  | | | | | | |
| **General Description** | | | | This organizer holds information about a person’s various specific occupations over time. It may hold current as well as prior observations about occupations which may include details about the employer and places where work was performed. A person’s occupation also includes industry information which is used to more precisely specify the occupation. | | | | | | |
| **Class/Mood** | | **Code** | | | | **Data Type** | **Value** | | | |
| ClassCode=  “CLUSTER”  MoodCode=  “EVN” | | Code = 11340-7  Display Name = History of Usual Occupation  CodeSystem = 2.16.840.1.113883.6.1  CodeSystemName=LOINC | | | | Organizer |  | | | |
| **Opt and Card** | **entryRelationship** | | **Description** | | **Template ID** | | | **Specification Document** | **Vocabulary Constraint** |
|  |  | |  | |  | | |  |  |

**6.3.4.E4 History of Occupation Organizer**

[organizer: templateId 1.3.6.1.4.1.19376.1.5.3.1.4.20.3 (open)]

A History of Occupation Organizer holds clinical statements about the subject’s specific occupations over time.

1. **SHALL** contain exactly one [1..1] **@classCode**="CLUSTER" CLUSTER (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood 2.16.840.1.113883.5.1001).
3. **SHALL** contain exactly one [1..1] **templateId** such that it
   1. **SHALL** contain exactly one [1..1] **@root**="1.3.6.1.4.1.19376.1.5.3.1.4.20.3".
4. **SHALL** contain at least one [1..\*] **id**.
   1. The first id represents this specific globally unique History of Occupation organizer.
5. **SHALL** contain exactly one [1..1] **code**.
   1. **SHall** be 11340-7 (History of Occupation) from LOINC.
6. **SHALL** contain exactly one [1..1] **statusCode**="completed" Completed (CodeSystem: ActStatus 2.16.840.1.113883.5.14).
7. **SHALL** contain exactly one [1..1] **effectiveTime**.
   1. represents the point in time that the most recent Occupation Observation component entry was added.
8. **SHall** contain one or more [1..\*] **component**.
   1. The component/@typeCode **SHALL** be “COMP”.
   2. SHALL contain exactly one [1..1] Occupation Observation (1.3.6.1.4.1.19376.1.5.3.1.4.20.6).

Add the following section 6.3.4.E5:Employment Status Observation

**Table 6.3.4.E5-1 Employment Status Observation Entry** 1.3.6.1.4.1.19376.1.5.3.1.4.20.4

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Template Name** | | | | Employment Status Observation Entry | | | | | | |
| **Template ID** | | | | 1.3.6.1.4.1.19376.1.5.3.1.4.20.4 | | | | | | |
| **Parent Template** | | | |  | | | | | | |
| **General Description** | | | | An employment status observation entry is a clinical statement about a person’s employment status at a point in time. An employment status observation recorded two years ago represents the person’s employment status at that time. An employment status observation recorded today represents the person’s employment status at this more current point in time. | | | | | | |
| **Class/Mood** | | **Code** | | | | **Data Type** | **Value** | | | |
| ClassCode=  “OBS”  MoodCode=  “EVN” | | Code = 74165-2  Display Name = History of Employment Status  CodeSystem = 2.16.840.1.113883.6.1  CodeSystemName=LOINC  Should this be LOINC or SNOMED CT? | | | | Observation | Value xsi:type = “CD” from value set PHVS\_EmploymentStatus\_ODH 2.16.840.1.114222.4.11.7129 | | | |
| **Opt and Card** | **entryRelationship** | | **Description** | | **Template ID** | | | **Specification Document** | **Vocabulary Constraint** |

**6.3.4.E5 Employment Status Observation**

[observation: templateId 1.3.6.1.4.1.19376.1.5.3.1.4.20.4 (open)]

An Employment Status Entry is a clinical statement about the subject’s employment status at the point in time the statement is recorded.

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood 2.16.840.1.113883.5.1001).
3. **SHALL** contain exactly one [1..1] **templateId** such that it
   1. **SHALL** contain exactly one [1..1] **@root**="1.3.6.1.4.1.19376.1.5.3.1.4.20.4".
4. **SHALL** contain at least one [1..\*] **id**.
5. **SHALL** contain exactly one [1..1] **code**.
   1. **SHall** be 74165-2 (History of Employment Status) from LOINC (codeSystem 2.16.840.1.113883.6.1).
6. **SHALL** contain exactly one [1..1] **statusCode**="completed" (CodeSystem: ActStatus 2.16.840.1.113883.5.14).
7. **SHALL** contain exactly one [1..1] **effectiveTime**.
   1. This effectiveTime MAY contain exactly one [1..1] low.
      1. If the starting time is unknown, the <low> element SHALL have the nullFlavor attribute set to UNK.
   2. This effectiveTime SHALL contain exactly one [1..1] high.
      1. The ending time <high> element SHALL not be greater than the time the observation is made.
8. This observation **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD", where the @code **SHOULD** be selected from ValueSet PHVS\_EmploymentStatus\_ODH 2.16.840.1.114222.4.11.7129  **STATIC**

Add the following section 6.3.4.E6:Usual Occupation and Industry Observation

**Table 6.3.4.E6-1 Usual Occupation and Usual Industry Observation Entry** 1.3.6.1.4.1.19376.1.5.3.1.4.20.5

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Template Name** | | | | Usual Occupation and Usual Industry Observation Entry | | | | | | |
| **Template ID** | | | | 1.3.6.1.4.1.19376.1.5.3.1.4.20.5 | | | | | | |
| **Parent Template** | | | |  | | | | | | |
| **General Description** | | | | A Usual Occupation and Industry Observation entry is a clinical statement about a person’s usual employment and Usual Industry, which is defined to be the occupation held for the longest period of time over the course of a person’s career and the industry in which the person has worked for the longest. The entry represents the person’s usual occupation and usual industry at the point in time when the observation is recorded. | | | | | | |
| **Class/Mood** | | **Code** | | | | **Data Type** | **Value** | | | |
| ClassCode=  “OBS”  MoodCode=  “EVN” | | Code = 74164-5  Display Name = Usual Occupation and Industry Hx  CodeSystem = 2.16.840.1.113883.6.1  CodeSystemName=LOINC  Should this be LOINC or SNOMED CT | | | | Observation | Value xsi:type = “CD” from value set PHVS\_Occupation\_CDC\_Census2010 2.16.840.1.114222.4.11.7186 | | | |
| **Opt and Card** | **entryRelationship** | | **Description** | | **Template ID** | | | **Specification Document** | **Vocabulary Constraint** |

**6.3.4.E6 Usual Occupation and Industry Observation Entry**

[observation: templateId 1.3.6.1.4.1.19376.1.5.3.1.4.20.5 (open)]

A Usual Occupation and Industry Observation Entry is a clinical statement about the type of occupation which the subject has held for the longest duration through his or her working history, at the point in time the statement is recorded, and the industry in which the subject has been employed the longest. It optionally includes the duration for each.

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood 2.16.840.1.113883.5.1001).
3. **SHALL** contain exactly one [1..1] **templateId** such that it
   1. **SHALL** contain exactly one [1..1] **@root**="1.3.6.1.4.1.19376.1.5.3.1.4.20.5".
4. **SHALL** contain at least one [1..\*] **id**.
5. **SHALL** contain exactly one [1..1] **code**.
   1. **SHall** be 74164-5 (Usual Occupation and Industry Hx) from LOINC (codeSystem 2.16.840.1.113883.6.1).
6. **SHALL** contain exactly one [1..1] **statusCode**="completed" (CodeSystem: ActStatus 2.16.840.1.113883.5.14).
7. **SHALL** contain exactly one [1..1] **effectiveTime**.
   1. Such that the effectiveTime shall be used to represent the date that the observation is collected.
8. SHALL contain exactly one [1..1] value with @xsi:type="CD".
   1. This value SHALL contain exactly one [1..1] @code, which SHALL be selected from ValueSet PHVS\_Occupation\_CDC\_Census2010 2.16.840.1.114222.4.11.7186 DYNAMIC
9. SHall contain exactly one [1..1] participant such that it
   1. SHALL contain exactly one [1..1] @typeCode="IND"
   2. Shall contain exactly one [1..1] participantRole
      1. Which **SHALL** contain exactly one [1..1] **@classCode**="ROL" (CodeSystem: RoleCode 2.16.840.1.113883.5.111 **STATIC**).
      2. Which **SHALL** contain exactly one [1..1] **id**
         1. Such that the id **SHALL** reference the id of an participant/AssociatedEntity in the header which SHALL contain exactly one [1..1] templateId such that it SHALL contain exactly one [1..1] @root=" 1.3.6.1.4.1.19376.1.5.3.1.2.2" (IHE Employer and School Contacts template).
         2. The AssociatedEntity/scopingOrganization shall contain exactly one [1..1] standardIndustryClassCode which SHALL be selected from ValueSet PHVS\_Industry\_CDC\_Census2010 2.16.840.1.114222.4.11.7187 DYNAMIC
10. SHOULD contain zero or one [0..1] entryRelationship such that it
    1. SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType 2.16.840.1.113883.5.1002 STATIC).
    2. SHALL contain exactly one [1..1] Usual Occupation Duration Observation (1.3.6.1.4.1.19376.1.5.3.1.4.20.9).
11. SHOULD contain zero or one [0..1] entryRelationship such that it
    1. SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType 2.16.840.1.113883.5.1002 STATIC).
    2. SHALL contain exactly one [1..1] Usual Industry Duration Observation (1.3.6.1.4.1.19376.1.5.3.1.4.20.10).

Add the following section 6.3.4.E7 Occupation Observation

**Table 6.3.4.E7-1 Occupation Observation Entry 1.3.6.1.4.1.19376.1.5.3.1.4.20.6**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Template Name** | | | | Occupation Observation Entry | | | | | | |
| **Template ID** | | | | 1.3.6.1.4.1.19376.1.5.3.1.4.20.6 | | | | | | |
| **Parent Template** | | | |  | | | | | | |
| **General Description** | | | | An Occupation Observation entry is a clinical statement about a person’s specific employment situation includes the occupation and the industry which is required to determine the precise occupation held. The entry may also include information about the employer and locations where work has been performed. | | | | | | |
| **Class/Mood** | | **Code** | | | | **Data Type** | **Value** | | | |
| ClassCode=  “OBS”  MoodCode=  “EVN” | | Code = 11340-7  Display Name = History of Occupation  CodeSystem = 2.16.840.1.113883.6.1  CodeSystemName=LOINC | | | | Observation | Value xsi:type = “CD” from value set PHVS\_Occupation\_CDC\_Census2010 2.16.840.1.114222.4.11.7186 | | | |
| **Opt and Card** | **entryRelationship** | | **Description** | | **Template ID** | | | **Specification Document** | **Vocabulary Constraint** |

**6.3.4.E7 Occupation Observation Entry**

[observation: templateId 1.3.6.1.4.1.19376.1.5.3.1.4.20.6 (open)]

An Occupation Observation Entry is a clinical statement about the type of occupation which the subject currently holds or has held in the past.

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood 2.16.840.1.113883.5.1001).
3. **SHALL** contain exactly one [1..1] **templateId** such that it
   1. **SHALL** contain exactly one [1..1] **@root**="1.3.6.1.4.1.19376.1.5.3.1.4.20.6".
4. **SHALL** contain at least one [1..\*] **id**.
5. **SHALL** contain exactly one [1..1] **code**.
   1. **SHall** be 11340-7 (History of Occupation) from LOINC (codeSystem 2.16.840.1.113883.6.1).
6. **SHALL** contain exactly one [1..1] **statusCode**="completed" (CodeSystem: ActStatus 2.16.840.1.113883.5.14).
7. **SHALL** contain exactly one [1..1] **effectiveTime**.
   1. This effectiveTime SHOULD contain exactly one [1..1] low.
      1. If the starting time is unknown, the <low> element SHALL have the nullFlavor attribute set to UNK.
   2. This effectiveTime SHALL contain exactly one [1..1] high.
      1. The ending time <high> element SHALL not be greater than the time the observation is made.
8. SHALL contain exactly one [1..1] value with @xsi:type="CD".
   1. This value SHALL contain exactly one [1..1] @code, which SHALL be selected from ValueSet PHVS\_Occupation\_CDC\_Census2010 2.16.840.1.114222.4.11.7186 DYNAMIC
9. SHall contain exactly one [1..1] participant such that it
   1. SHALL contain exactly one [1..1] @typeCode="IND"
   2. Shall contain exactly one [1..1] participantRole
      1. Which **SHALL** contain exactly one [1..1] **@classCode**="ROL" (CodeSystem: RoleCode 2.16.840.1.113883.5.111 **STATIC**).
      2. Which **SHALL** contain exactly one [1..1] **id**
         1. Such that the id **SHALL** reference the id of an AssociatedEntity in the header which SHALL contain exactly one [1..1] templateId such that it SHALL contain exactly one [1..1] @root=" 1.3.6.1.4.1.19376.1.5.3.1.2.2" (IHE Employer and School Contacts template).
         2. The AssociatedEntity shall contain exactly one [1..1] name.
         3. The AssociatedEntity shall contain exactly one [1..1] addr.
         4. The AssociatedEntity/scopingOrganization shall contain exactly one [1..1] standardIndustryClassCode which SHALL be selected from ValueSet PHVS\_Industry\_CDC\_Census2010 2.16.840.1.114222.4.11.7187 DYNAMIC
10. SHOULD contain zero or one [0..1] entryRelationship such that it
    1. SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType 2.16.840.1.113883.5.1002 STATIC).
    2. SHALL contain exactly one [1..1] Work Shift Observation (1.3.6.1.4.1.19376.1.5.3.1.4.20.7).
11. SHOULD contain zero or one [0..1] entryRelationship such that it
    1. SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType 2.16.840.1.113883.5.1002 STATIC).
    2. SHALL contain exactly one [1..1] Weekly Work Hours Observation (1.3.6.1.4.1.19376.1.5.3.1.4.20.8).

Add the following section 6.3.4.E8 Work Shift Observation

**Table 6.3.4.E8-1 Work Shift Observation Entry** 1.3.6.1.4.1.19376.1.5.3.1.4.20.7

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Template Name** | | | | Work Shift Observation Entry | | | | | | |
| **Template ID** | | | | 1.3.6.1.4.1.19376.1.5.3.1.4.20.7 | | | | | | |
| **Parent Template** | | | |  | | | | | | |
| **General Description** | | | | The “shift” or typical time within a work-day in which a person is scheduled to perform their duties. | | | | | | |
| **Class/Mood** | | **Code** | | | | **Data Type** | **Value** | | | |
| ClassCode=  “OBS”  MoodCode=  “EVN” | | Code = 74159-5  Display Name = Work Shift  CodeSystem = 2.16.840.1.113883.6.1  CodeSystemName=LOINC | | | | Observation | Value xsi:type = “CD” from value set PHVS\_WorkSchedule\_ODH 2.16.840.1.114222.4.11.7130 | | | |
| **Opt and Card** | **entryRelationship** | | **Description** | | **Template ID** | | | **Specification Document** | **Vocabulary Constraint** |
|  |  | |  | |  | | |  |  |

**6.3.4.E8 Work Shift Observation Entry**

[observation: templateId 1.3.6.1.4.1.19376.1.5.3.1.4.20.7 (open)]

A clinical statement about the “shift” or typical time within a work-day in which a person is scheduled to perform their duties.

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood 2.16.840.1.113883.5.1001) .
3. **SHALL** contain exactly one [1..1] **templateId** such that it
   1. **SHALL** contain exactly one [1..1] **@root**="1.3.6.1.4.1.19376.1.5.3.1.4.20.7".
4. **SHALL** contain at least one [1..\*] **id**.
5. **SHALL** contain exactly one [1..1] **code**.
   1. **SHall** be 74159-5 (Workshift) from LOINC.
6. **SHALL** contain exactly one [1..1] **statusCode**="completed" Completed (CodeSystem: ActStatus 2.16.840.1.113883.5.14).
7. SHALL contain exactly one [1..1] value with @xsi:type="CD".
   1. This value SHALL contain exactly one [1..1] @code, which SHALL come from value set Value Set PHVS\_WorkSchedule\_ODH 2.16.840.1.114222.4.11.7130

Add the following section 6.3.4.E9 Weekly Work Hours Observation

**Table 6.3.4.E9-1 Weekly Work Hours Observation Entry** 1.3.6.1.4.1.19376.1.5.3.1.4.20.8

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Template Name** | | | | Weekly Work Hours Observation Entry | | | | | | |
| **Template ID** | | | | 1.3.6.1.4.1.19376.1.5.3.1.4.20.8 | | | | | | |
| **Parent Template** | | | |  | | | | | | |
| **General Description** | | | | The typical hours per week that a person spends working. | | | | | | |
| **Class/Mood** | | **Code** | | | | **Data Type** | **Value** | | | |
| ClassCode=  “OBS”  MoodCode=  “EVN” | | Code = 74161-1  Display Name = Weekly Work Hours  CodeSystem = 2.16.840.1.113883.6.1  CodeSystemName=LOINC | | | | Observation | value with @xsi:type="INT" | | | |
| **Opt and Card** | **entryRelationship** | | **Description** | | **Template ID** | | | **Specification Document** | **Vocabulary Constraint** |
|  |  | |  | |  | | |  |  |

**6.3.4.E9 Weekly Work Hours Observation Entry**

[observation: templateId 1.3.6.1.4.1.19376.1.5.3.1.4.20.8 (open)]

A clinical statement about the typical number of hours per week that a person spends performing their duties for work.

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood 2.16.840.1.113883.5.1001) .
3. **SHALL** contain exactly one [1..1] **templateId** such that it
   1. **SHALL** contain exactly one [1..1] **@root**="1.3.6.1.4.1.19376.1.5.3.1.4.20.8".
4. **SHALL** contain at least one [1..\*] **id**.
5. **SHALL** contain exactly one [1..1] **code**.
   1. **SHall** be 74161-1 (Weekly Work Hours) from LOINC.
6. **SHALL** contain exactly one [1..1] **statusCode**="completed" Completed (CodeSystem: ActStatus 2.16.840.1.113883.5.14).
7. SHALL contain exactly one [1..1] value with @xsi:type="INT".
   1. This value SHALL contain exactly one [1..1] @value, which represents the number of hours in a week that a person usually works.

Add the following section 6.3.4.E10 Usual Occupation Duration

**Table 6.3.4.E10-1 Usual Occupation Duration Entry** (1.3.6.1.4.1.19376.1.5.3.1.4.20.9)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Template Name** | | | | Usual Occupation Duration Entry | | | | | | |
| **Template ID** | | | | 1.3.6.1.4.1.19376.1.5.3.1.4.20.9 | | | | | | |
| **Parent Template** | | | |  | | | | | | |
| **General Description** | | | | A Usual Occupation Duration entry is a clinical statement about a quantity of time. | | | | | | |
| **Class/Mood** | | **Code** | | | | **Data Type** | **Value** | | | |
| ClassCode=  “OBS”  MoodCode=  “EVN” | | Code = 74163-7  Display Name = Usual Occupation Duration  CodeSystem = 2.16.840.1.113883.6.1  CodeSystemName=LOINC | | | | Observation | Value xsi:type=PQ representing the number of years of months. Units shall be expressed in UCUM. | | | |
| **Opt and Card** | **entryRelationship** | | **Description** | | **Template ID** | | | **Specification Document** | **Vocabulary Constraint** |
|  |  | |  | |  | | |  |  |

**6.3.4.E10 Usual Occupation Duration Entry**

[observation: templateId 1.3.6.1.4.1.19376.1.5.3.1.4.20.9 (open)]

A Usual Occupation Duration Entry is a clinical statement about the quantity of time a person spent in the occupation they held the longest over the course of their career.

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood 2.16.840.1.113883.5.1001) .
3. **SHALL** contain exactly one [1..1] **templateId** such that it
   1. **SHALL** contain exactly one [1..1] **@root**="1.3.6.1.4.1.19376.1.5.3.1.4.20.9".
4. **SHALL** contain at least one [1..\*] **id**.
5. **SHALL** contain exactly one [1..1] **code**.
   1. **SHall** be 74163-7 (Usual Occupation Duration) from LOINC.
6. **SHALL** contain exactly one [1..1] **statusCode**="completed" Completed (CodeSystem: ActStatus 2.16.840.1.113883.5.14).
7. SHALL contain exactly one [1..1] value with @xsi:type="PQ".
   1. This value SHALL contain exactly one [1..1] @unit, which SHALL include duration-related units from value set UCUM 2.16.840.1.113883.1.11.12839.

Add the following section 6.3.4.E11 Usual Industry Duration

**Table 6.3.4.E10-1 Usual Industry Duration Entry**

1.3.6.1.4.1.19376.1.5.3.1.4.20.10

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Template Name** | | | | Usual Industry Duration Entry | | | | | | |
| **Template ID** | | | | 1.3.6.1.4.1.19376.1.5.3.1.4.20.10 | | | | | | |
| **Parent Template** | | | |  | | | | | | |
| **General Description** | | | | A Usual Industry Duration entry is a clinical statement about a quantity of time in which a person was employed in an industry. | | | | | | |
| **Class/Mood** | | **Code** | | | | **Data Type** | **Value** | | | |
| ClassCode=  “OBS”  MoodCode=  “EVN” | | Code = 74162-9  Display Name = Usual Industry Duration  CodeSystem = 2.16.840.1.113883.6.1  CodeSystemName=LOINC | | | | Observation | Value xsi:type=PQ representing the number of years of months. Units shall be expressed in UCUM. | | | |
| **Opt and Card** | **entryRelationship** | | **Description** | | **Template ID** | | | **Specification Document** | **Vocabulary Constraint** |
|  |  | |  | |  | | |  |  |

**6.3.4.E11 Usual Industry Duration Entry**

[observation: templateId 1.3.6.1.4.1.19376.1.5.3.1.4.20.10

(open)]

A Usual Industry Duration Entry is a clinical statement about the quantity of time a person spent in a particular industry in which they worked for the longest over the course of their career.

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood 2.16.840.1.113883.5.1001) .
3. **SHALL** contain exactly one [1..1] **templateId** such that it
   1. **SHALL** contain exactly one [1..1] **@root**="1.3.6.1.4.1.19376.1.5.3.1.4.20.10".
4. **SHALL** contain at least one [1..\*] **id** .
5. **SHALL** contain exactly one [1..1] **code**.
   1. **SHall** be 74162-9 (Usual Industry Duration) from LOINC.
6. **SHALL** contain exactly one [1..1] **statusCode**="completed" Completed (CodeSystem: ActStatus 2.16.840.1.113883.5.14) .
7. SHALL contain exactly one [1..1] value with @xsi:type="PQ".
   1. This value SHALL contain exactly one [1..1] @unit, which SHALL include duration-related units from value set UCUM 2.16.840.1.113883.1.11.12839.