**Issues Detected by Analyzing Pairs of Matches with the Same Target in each Mapping.**

For example:

- A [E] O and B [E] O. Then, is A EQUIVALENT to B?

- A [P] O and B [W] O. Then, is A PART of B?

- A [W] O and B [W] O. Then, is A INTERSECTED with B?

**## VERTICAL MAPPINGS**

**# CMMI --> SEON View identified issues:**

M1: Process and Product Quality Assurance PA [E] Quality Assurance Process

M2: Institutionalize a Managed (PPQA) Process [I] Quality Assurance Process

*Is Process and Product Quality Assurance PA* ***INTERSECTED with*** *Institutionalize a Managed (PPQA) Process?*

Yes!

M1: Objectively Evaluate Processes and Work Products [E] Adherence Evaluation

M2: Identify and Involve Relevant Stakeholders [I] Adherence Evaluation

*Is Objectively Evaluate Processes and Work Products* ***INTERSECTED with*** *Identify and Involve Relevant Stakeholders?*

Yes!

M1: Provide Objective Insight [W] Noncompliance Control

M2: Identify and Involve Relevant Stakeholders [I] Noncompliance Control

*Is Provide Objective Insight* ***INTERSECTED with*** *Identify and Involve Relevant Stakeholders?*

Yes!

M1: Objectively Evaluate Work Products [W] Noncompliance Identification

M2: Objectively Evaluate Processes [W] Noncompliance Identification

*Is Objectively Evaluate Work Products* ***INTERSECTED with*** *Objectively Evaluate Processes?*

Yes!

**# 12207 --> SEON View identified issues:**

M1: Establish Quality Assurance Process [P] Quality Assurance Planning

M2: Develop, Implement and Maintain Quality Assurance Plan [E] Quality Assurance Planning

*Is Establish Quality Assurance Process PART of Develop, Implement and Maintain Quality Assurance Plan?*

Yes!

M1: Quality Assurance Process Description [P] Quality Assurance Plan

M2: Quality Assurance Plan [E] Quality Assurance Plan

*Is Quality Assurance Process Description PART of Quality Assurance Plan?*

Yes!

**## ICM MAPPINGS**

**# CMMI --> Integrated Content Model identified issues:**

M1: Provide Objective Insight [W] Quality Assurance Status Communication

M2: Communicate and Resolve Noncompliance Issues [W] Quality Assurance Status Communication

*Is Provide Objective Insight INTERSECTED with Communicate and Resolve Noncompliance Issues?*

Wrong Match: the first match is not necessary since Provide Objective Insight is already WIDER than Communicate and Resolve Noncompliance Issues.

M1: Provide Objective Insight [W] Quality Assurance Status Communication

M2: Identify and Involve Relevant Stakeholders [I] Quality Assurance Status Communication

*Is Provide Objective Insight INTERSECTED with Identify and Involve Relevant Stakeholders?*

Yes!

M1: Communicate and Resolve Noncompliance Issues [W] Quality Assurance Status Communication

M2: Identify and Involve Relevant Stakeholders [I] Quality Assurance Status Communication

*Is Communicate and Resolve Noncompliance Issues INTERSECTED with Identify and Involve Relevant Stakeholders?*

Yes!

**# 12207 --> Integrated Content Model identified issues:**

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**## HORIZONTAL MAPPINGS**

**# CMMI --> 12207 identified issues:**

M1: Objectively Evaluate Processes and Work Products [E] Execute Quality Assurance Activities

M2: Identify and Involve Relevant Stakeholders [I] Execute Quality Assurance Activities

*Is Objectively Evaluate Processes and Work Products INTERSECTED with Identify and Involve Relevant Stakeholders?*

Yes!

M1: Noncompliance Report [P] Evaluation Record

M2: Evaluation Report [E] Evaluation Record

*Is Noncompliance Report PART of Evaluation Report?*

Yes!

M1: Evaluation Log [P] Evaluation Record

M2: Evaluation Report [E] Evaluation Record

*Is Evaluation Log PART of Evaluation Report?*

Yes!

M1: Quality Assurance Report [P] Evaluation Record

M2: Evaluation Report [E] Evaluation Record

*Is Quality Assurance Report PART of Evaluation Report?*

Yes!

M1: Corrective Action Report [P] Problem Resolution

M2: Corrective Action Status Report [E] Problem Resolution

*Is Corrective Action Report PART of Corrective Action Status Report?*

Yes!

M1: Communicate and Resolve Noncompliance Issues [W] Quality Management Corrective Action

M2: Provide Objective Insight [W] Quality Management Corrective Action

*Is Communicate and Resolve Noncompliance Issues INTERSECTED with Provide Objective Insight?*

Yes!

**# 12207 --> CMMI identified issues:**

M1: Execute Quality Assurance Activities [E] Objectively Evaluate Processes and Work Products

M2: Make Quality Assurance Records Available [I] Objectively Evaluate Processes and Work Products

*Is Execute Quality Assurance Activities INTERSECTED with Make Quality Assurance Records Available?*

Yes!

M1: Establish Quality Assurance Process [P] Plan the Process

M2: Develop, Implement and Maintain Quality Assurance Plan [W] Plan the Process

*Is Establish Quality Assurance Process PART of Develop, Implement and Maintain Quality Assurance Plan?*

Yes!

M1: Quality Assurance Process Description [P] Quality Assurance Plan

M2: Quality Assurance Plan [E] Quality Assurance Plan

*Is Quality Assurance Process Description PART of Quality Assurance Plan?*

Yes!

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**Issues Detected by Analyzing Matches of Related Ontology Concepts (only for Vertical Mappings).**

For example:

- O2 [p] O1, A [E] O1, B [E] O2. Then, is B PART of A?

- O2 [p] O1, A [W] O1, B [P] O2. Then, is B PART of A?

**# CMMI --> SEON View identified relational issues:**

Relation: Corrective Action Register PART of Noncompliance Register

M1: Corrective Action [E] Corrective Action Register

M2: Noncompliance Issue [E] Noncompliance Register

*Is Corrective Action PART of Noncompliance Issue?*

Yes!

Relation: Quality Assurance Planning PART of Quality Assurance Process

M1: Plan the Process [P] Quality Assurance Planning

M2: Process and Product Quality Assurance PA [E] Quality Assurance Process

*Is Plan the Process PART of Process and Product Quality Assurance PA?*

Yes!

Relation: Quality Assurance Planning PART of Quality Assurance Process

M1: Assign Responsibility [P] Quality Assurance Planning

M2: Process and Product Quality Assurance PA [E] Quality Assurance Process

*Is Assign Responsibility PART of Process and Product Quality Assurance PA?*

Yes!

**# 12207 --> SEON View identified relational issues:**

Relation: Process Evaluation PART of Adherence Evaluation

M1: Process Assurance [E] Process Evaluation

M2: Execute Quality Assurance Activities [E] Adherence Evaluation

*Is Process Assurance PART of Execute Quality Assurance Activities?*

Yes!

Relation: Artifact Evaluation PART of Adherence Evaluation

M1: Product Assurance [E] Artifact Evaluation

M2: Execute Quality Assurance Activities [E] Adherence Evaluation

*Is Product Assurance PART of Execute Quality Assurance Activities?*

Yes!

Relation: Corrective Action Register PART of Noncompliance Register

M1: Corrective Action [E] Corrective Action Register

M2: Nonconformance [E] Noncompliance Register

*Is Corrective Action PART of Nonconformance?*

Yes!

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