Introduction

This MODS application profile for electronic theses and dissertations (ETDs) describes the best practices for descriptive metadata for members of the Texas Digital Library (TDL). This document defines the mandatory minimum elements for ETDs. Besides these elements, other valid MODS elements may be included in ETD records. Optional elements, subelements, and attributes are described throughout the document.

MODS elements for ETDs:

Title Information (mandatory)
Name of Author (mandatory)
Name of Thesis Advisor (mandatory)
Name of Committee Member (optional)
Name of Degree Grantor (mandatory)
Type of Resource (mandatory)
Genre (mandatory)
Origin Information (mandatory)
Language (mandatory)
Physical Description (mandatory)
Abstract (mandatory)
Subject (mandatory)
Identifier (mandatory)
Location (mandatory)
Degree Information (mandatory)
Record Information (mandatory)

Instructions for formatting and encoding:

Title Information

Mandatory practice: Encode the title information in a <mods:titleInfo> wrapper element. Encode the title proper in a <mods:title> subelement. Encode the subtitle in a <mods:subTitle> subelement.

Optional practice: Other valid subelements or attributes within the <mods:titleInfo> element may be used.

Example:

<mods:titleInfo>
  <mods:title>Critical processes and performance measures for patient safety systems in healthcare institutions
</mods:title>
Name of Author

Mandatory practice: Encode information about the name of the author in the <mods:name> wrapper element with the type attribute set to “personal.” Encode the MARC relator term “Author” in the <mods:roleTerm> subelement under the <mods:role> subelement. Encode the various parts of the name in the <mods:namePart> subelement. Include the type attribute in each <mods:namePart> subelement. The “given” and “family” name types are mandatory.

Optional practice: Encode the birthdate in a <mods:namePart> subelement with type set to “date”. Other valid subelements or attributes within the <mods:name> element may be used.

Example:

<mods:name type="personal">
  <mods:namePart type="given">Ralitsa B.</mods:namePart>
  <mods:namePart type="family">Akins</mods:namePart>
  <mods:namePart type="date">1967-</mods:namePart>
  <mods:role>
    <mods:roleTerm authority="marcrelator" type="text">Author</mods:roleTerm>
  </mods:role>
</mods:name>

Name of Thesis Advisor

Mandatory practice: Encode information about the thesis advisor in the <mods:name> wrapper element with the type attribute set to “personal.” Encode the MARC relator term “Thesis advisor” in the <mods:roleTerm> subelement under the <mods:role> subelement. Encode the various parts of the name in the <mods:namePart> subelement. Include the type attribute in each <mods:namePart> subelement. The “given” and “family” name types are mandatory. The element <mods:name> is repeatable for thesis advisors.

Optional practice: Encode the birthdate in a <mods:namePart> subelement with type set to “date”. Other valid subelements or attributes within the <mods:name> element may be used.

Example:

<mods:name type="personal">
  <mods:namePart type="given">Bryan R.</mods:namePart>
  <mods:namePart type="family">Cole</mods:namePart>
  <mods:role>
    <mods:roleTerm authority="marcrelator" type="text">Thesis advisor</mods:roleTerm>
  </mods:role>
</mods:name>
Name of Committee Member

Optional practice: Encode information about committee members in the `<mods:name>` wrapper element with the type attribute set to “personal.” Encode the term “Committee member” in the `<mods:roleTerm>` subelement under the `<mods:role>` subelement. Encode the various parts of the name in the `<mods:namePart>` subelement. Include the type attribute in each `<mods:namePart>` subelement. The “given” and “family” name types are mandatory. The element `<mods:name>` is repeatable for committee members. Encode the birthdate in a `<mods:namePart>` subelement with type set to “date”. Other valid subelements or attributes within the `<mods:name>` element may be used.

Example:

```xml
<mods:name type="personal">
  <mods:namePart type="given">Jane R.</mods:namePart>
  <mods:namePart type="family">Smith</mods:namePart>
  <mods:role>
    <mods:roleTerm type="text">Committee member</mods:roleTerm>
  </mods:role>
</mods:name>
```

Name of Degree Grantor

Mandatory practice: Encode information about the degree grantor in the `<mods:name>` wrapper element with the type attribute set to “corporate.” Encode the name of the degree granting institution in a `<mods:namePart>` subelement. Use the form of the name authorized by the Library of Congress Name Authority File. Encode the name of the department that granted the degree in a `<mods:namePart>` subelement. Encode the MARC relator term “Degree grantor” in the `<mods:roleTerm>` subelement under the `<mods:role>` subelement.

Optional practice: Other valid subelements or attributes within the `<mods:name>` element may be used.

Example:

```xml
<mods:name type="corporate" authority="lcnaf">
  <mods:namePart>Texas A &amp; M University</mods:namePart>
  <mods:namePart>Philosophy</mods:namePart>
  <mods:role>
    <mods:roleTerm authority="marcrelator" type="text">Degree grantor</mods:roleTerm>
  </mods:role>
</mods:name>
```

Type of Resource
Mandatory practice: Encode the type of resource in the `<mods:typeOfResource>` element. The element `<mods:typeOfResource>` is repeatable for ETDs with multiple files.

Example:

```xml
<mods:typeOfResource>
  text
</mods:typeOfResource>
```

**Genre**

Mandatory practice: Encode the MARC genre term “theses” in the `<mods:genre>` element. Set the authority attribute to “marcgt.”

Optional practice: Other valid attributes within the `<mods:genre>` element may be used.

Example:

```xml
<mods:genre authority="marcgt">
  theses
</mods:genre>
```

**Origin Information**

Mandatory practice: Encode relevant dates for the ETD in the `<mods:originInfo>` wrapper element. The creation date is defined as the date the student graduates or the date the degree is conferred. The publication date is defined as the date the ETD is released to the public.

Encode the month and year of the creation date, according to ISO 8601, in the `<mods:dateCreated>` subelement. Set the encoding attribute to “iso8601.”

Encode the month and year of the publication date, according to ISO 8601, in the `<mods:dateIssued>` subelement. Set the encoding attribute to “iso8601.”

Optional practice: The day of the month may be included date encodings. Other valid subelements or attributes within the `<mods:originInfo>` element may be used.

Examples:

```xml
<mods:originInfo>
  <mods:dateCreated encoding="iso8601">200408</mods:dateCreated>
  <mods:dateIssued encoding="iso8601">200412</mods:dateIssued>
</mods:originInfo>
```

**Language**
Mandatory practice: Encode information about the language of the ETD in the `<mods:language>` wrapper element. Encode the language, according to ISO 639-2b, in the `<mods:languageTerm>` subelement. Set the type attribute to “code” and the authority attribute to “iso639-2b.” The `<mods:languageTerm>` subelement is repeatable.

Optional practice: Other valid subelements or attributes within the `<mods:language>` element may be used.

Example:

```xml
<mods:language>
  <mods:languageTerm type="code" authority="iso639-2b">eng</mods:languageTerm>
  <mods:languageTerm type="code" authority="iso639-2b">spa</mods:languageTerm>
</mods:language>
```

**Physical Description**


Optional practice: Other valid attributes within the `<mods:physicalDescription>` element may be used.

Example:

```xml
<mods:physicalDescription>
  <mods:form authority="marcform">electronic</mods:form>
  <mods:internetMediaType>application/pdf</mods:internetMediaType>
</mods:physicalDescription>
```

**Abstract**


Optional practice: Valid attributes within the `<mods:abstract>` element may be used.

Example:
This dissertation study presents a conceptual framework for implementing and assessing patient safety systems in healthcare institutions. The conceptual framework consists of critical processes and performance measures identified in the context of the 2003 Malcolm Baldrige National Quality Award (MBNQA) Health Care Criteria for Performance Excellence.

Subject

Mandatory practice: Encode topical subject terms in the <mods:subject> wrapper element. Encode individual terms or phrases in the <mods:topic> subelement. The <mods:subject> element is repeatable.

Optional practice: Controlled subject headings may be included by using the authority attribute of the <mods:topic> subelement. Other valid subelements or attributes within the <mods:subject> element may be used.

Example:

<mods:subject>
  <mods:topic>healthcare</mods:topic>
</mods:subject>

<mods:subject>
  <mods:topic>patient safety</mods:topic>
</mods:subject>

<mods:subject authority="lcsh">
  <mods:topic>Medical care</mods:topic>
  <mods:topic>Quality control</mods:topic>
  <mods:geographic>United States</mods:geographic>
  <mods:temporal>20th century</mods:temporal>
</mods:subject>

Identifier

Mandatory practice: Encode the unique identifier in the <mods:identifier> element. The <mods:identifier> element is repeatable.

Optional practice: The type attribute may be used in the <mods:identifier> element. Other valid attributes within the <mods:identifier> element may be used.

Example:

<mods:identifier type="hdl">
  http://handle.tamu.edu/1969.1/1042
</mods:identifier>
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Location

Mandatory practice: Encode the location in the `<mods:location>` wrapper element. Encode the uniform resource locator (URL) in the `<mods:url>` subelement.

Optional practice: Other valid attributes within the `<mods:identifier>` element may be used.

Example:

```xml
<mods:location>
  <mods:url>
    http://handle.tamu.edu/1969.1/1042
  </mods:url>
</mods:location>
```

Degree Information

Note: The MODS standard does not have elements specifically for theses and dissertations. In order to encode degree information in MODS, the `<mods:extension>` element is used to reference the ETD-MS XML schema.

Mandatory practice: Encode information about the conferred degree in the `<etd:degree>` wrapper element. Encode the degree name in the `<etd:name>` subelement. Use the fully spelled out form of the degree name. Encode the degree level, from the TDL vocabulary, in the `<etd:level>` subelement. Encode the degree discipline, from the TDL vocabulary, in the `<etd:discipline>` subelement.

Example:

```xml
<mods:extension>
  <etd:degree>
    <etd:name>Doctor of Philosophy</etd:name>
    <etd:level>Doctoral</etd:level>
    <etd:discipline>Educational Administration</etd:discipline>
  </etd:degree>
</mods:extension>
```

Record Information

Mandatory practice: Encode information about the MODS record in the `<mods:recordInfo>` wrapper element. Encode the name of the agency that created the MODS record in the `<mods:recordContentSource>` subelement, with the authority attribute set to “marcorg.” Encode the month, year, and day of the creation date of the record, according to ISO 8601, in the `<mods:recordCreationDate>` subelement. Set the encoding attribute to “iso8601.” Encode the month, year, and day of the change date, according to ISO 8601, in the `<mods:recordChangeDate>` subelement. Set the encoding attribute to “iso8601.” Encode the unique record identifier in the `<mods:recordIdentifier>` subelement.
Optional practice: Other valid attributes within the <mods:recordInfo> element may be used.

Example:

```xml
<mods:recordInfo>
  <mods:recordContentSource authority="marcorg">TxCM</mods:recordContentSource>
  <mods:recordCreationDate encoding="iso8601">20050826</mods:recordCreationDate>
  <mods:recordChangeDate encoding="iso8601">20050826</mods:recordChangeDate>
  <mods:recordIdentifier>12345678</mods:recordIdentifier>
</mods:recordInfo>
```
Full example of MODS record for an ETD

<?xml version="1.0" encoding="UTF-8"?>
<mods:mods
xmlns:mods="http://www.loc.gov/mods/v3"
xmlns:etd="http://www.ndltd.org/standards/metadata/etdms/1.0/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.loc.gov/mods/v3
http://www.loc.gov/standards/mods/v3/mods-3-1.xsd
http://www.ndltd.org/standards/metadata/etdms/1.0/
http://www.ndltd.org/standards/metadata/etdms/1.0/etdms.xsd">

<mods:titleInfo lang="eng">
   <mods:title>Critical processes and performance measures for patient safety systems in healthcare institutions</mods:title>
   <mods:subTitle>a Delphi study</mods:subTitle>
</mods:titleInfo>

<mods:name type="personal" authority="lcnaf">
   <mods:namePart>Akins, Ralitsa B., 1967-</mods:namePart>
   <mods:namePart type="given">Ralitsa B.</mods:namePart>
   <mods:namePart type="family">Akins</mods:namePart>
   <mods:namePart type="date">1967-</mods:namePart>
   <mods:role>
      <mods:roleTerm authority="marcrelator" type="text">Author</mods:roleTerm>
   </mods:role>
</mods:name>

<mods:name type="personal">
   <mods:namePart type="given">Bryan R.</mods:namePart>
   <mods:namePart type="family">Cole</mods:namePart>
   <mods:role>
      <mods:roleTerm authority="marcrelator" type="text">Thesis advisor</mods:roleTerm>
   </mods:role>
</mods:name>

<mods:name type="corporate" authority="lcnaf">
   <mods:namePart>Texas A &amp; M University</mods:namePart>
   <mods:role>
      <mods:roleTerm authority="marcrelator" type="text">Degree grantor</mods:roleTerm>
   </mods:role>
</mods:name>

<mods:typeOfResource>
text
</mods:typeOfResource>

<mods:genre authority="marcgt">
theses
</mods:genre>

<mods:originInfo>
   <mods:dateCreated encoding="iso8601">200408</mods:dateCreated>
   <mods:dateIssued encoding="iso8601">200411</mods:dateIssued>
</mods:originInfo>

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<mods:language>
  <mods:languageTerm type="code" authority="iso639-2b">eng</mods:languageTerm>
</mods:language>

<mods:physicalDescription>
  <mods:form authority="marcform">electronic</mods:form>
  <mods:internetMediaType>application/pdf</mods:internetMediaType>
</mods:physicalDescription>

<mods:abstract lang="eng">This dissertation study presents a conceptual framework for implementing and assessing patient safety systems in healthcare institutions. The conceptual framework consists of critical processes and performance measures identified in the context of the 2003 Malcolm Baldridge National Quality Award (MBNQA) Health Care Criteria for Performance Excellence. Methodology: The Delphi technique for gaining consensus from a group of experts and forecasting significant issues in the field of the Delphi panel expertise was used. Data collection included a series of questionnaires where the first round questionnaire was based on literature review and the MBNQA criteria for excellence in healthcare, and tested by an instrument review panel of experts. Twenty-three experts (MBNQA healthcare reviewers and senior healthcare administrators from quality award winning institutions) representing 18 states participated in the survey rounds. The study answered three research questions: (1) What are the critical processes that should be included in healthcare patient safety systems? (2) What are the performance measures that can serve as indicators of quality for the processes critical for ensuring patient safety? (3) What processes will be critical for patient safety in the future? The identified patient safety framework was further transformed into a patient safety tool with three levels: basic, intermediate, and advanced. Additionally, the panel of experts identified the major barriers to the implementation of patient safety systems in healthcare institutions. The identified "top seven" barriers were directly related to critical processes and performance measures identified as "important" or "very important" for patient safety systems in the present and in the future. This dissertation study is significant because the results are expected to assist healthcare institutions seeking to develop high quality patient safety programs, processes and services. The identified critical processes and performance measures can serve as a means of evaluating existing patient safety initiatives and guiding the strategic planning of new safety processes. The framework for patient safety systems utilizes a systems approach and will support healthcare senior administrators in achieving and sustaining improvement results. The identified patient safety framework will also assist healthcare institutions in using the MBNQA Health Care Criteria for Performance Excellence for self-assessment and quality improvement.</mods:abstract>

<mods:subject>
  <mods:topic>healthcare</mods:topic>
</mods:subject>

<mods:subject>
  <mods:topic>patient safety</mods:topic>
</mods:subject>

<mods:subject authority="lcsh">
  <mods:topic>Medical care</mods:topic>
  <mods:topic>Quality control</mods:topic>
  <mods:geographic>United States</mods:geographic>
  <mods:temporal>20th century</mods:temporal>
</mods:subject>