

# HBO MODS Extension

The HBO MODS Extension contains extensions for **Awards**, **Grades** and **Organisation names**. For a technical implementation, please see the XML schema provided on this page.

## XML Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:mods="http://www.loc.gov/mods/v3" xmlns="info:eu-repo/xmlns/hboMODSextension" targetNamespace="info:eu-repo/xmlns/hboMODSextension" elementFormDefault="qualified" attributeFormDefault="unqualified">
  <xs:import namespace="http://www.loc.gov/mods/v3" schemaLocation="http://www.loc.gov/standards/mods/v3/mods-3-4.xsd"/>

  <!-- (1) HBO MODS extension -->

  <xs:element name="hbo" type="hboDefinition"/>

  <!-- (2) Group Definition -->

  <xs:group name="hboGroup">
    <xs:choice>
      <xs:element name="award" type="awardDefinition"/>
      <xs:element name="grade" type="gradeDefinition"/>
      <xs:element name="name" type="nameDefinition"/>
    </xs:choice>
  </xs:group>

  <xs:complexType name="hboDefinition">
    <xs:group ref="hboGroup" maxOccurs="unbounded"/>
  </xs:complexType>

  <!-- (3) Top Level Types -->

  <!-- awardType definition -->
  <xs:complexType name="awardDefinition">
    <xs:sequence>
      <xs:element name="issuedBy" type="namedEntityType"/>
      <xs:element name="description" type="xs:string"/>
      <xs:element name="dateAwarded" type="mods:dateDefinition"/>
    </xs:sequence>
    <xs:attribute name="ID" type="xs:string" use="optional"/>
    <xs:attribute name="authority" type="xs:string" use="optional"/>
  </xs:complexType>

  <!-- gradeType definition -->
  <xs:complexType name="gradeDefinition">
    <xs:simpleContent>
      <xs:extension base="xs:string">
        <xs:attribute name="ID" type="xs:string" use="optional"/>
        <xs:attribute name="authority" type="xs:string" use="optional"/>
        <xs:attribute name="type" type="xs:string" use="optional"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>

  <!-- nameDefinition -->
  <xs:complexType name="nameDefinition">
    <xs:complexContent>
      <xs:extension base="nameBaseDefinition">
        <xs:attribute name="altRepGroup" type="xs:string"/>
        <!-- altRepGroup new in 3.4 -->
        <xs:attribute name="nameTitleGroup" type="xs:string"/>
        <!-- nameTitleGroup new in 3.4 -->
        <xs:attribute name="usage" type="mods:usageAttributeDefinition"/>
        <!-- usage added to <name> in 3.4 -->
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

```

<!-- (4) Subordinate Types -->

<!-- namedEntityType definition -->
<xs:complexType name="namedEntityType">
  <xs:simpleContent>
    <xs:extension base="xs:anyURI">
      <xs:attribute name="IDref" type="xs:string" use="optional"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

<xs:group name="modsNameBaseGroup">
  <xs:choice>
    <xs:element ref="mods:namePart"/>
    <xs:element ref="mods:displayForm"/>
    <xs:element ref="mods:affiliation"/>
    <xs:element ref="mods:role"/>
    <xs:element ref="mods:description"/>
  </xs:choice>
</xs:group>

<!-- nameBaseDefinition -->
<xs:complexType name="nameBaseDefinition">
  <xs:complexContent>
    <xs:extension base="mods:nameBaseDefinition">
      <xs:choice minOccurs="0" maxOccurs="unbounded">
        <xs:element name="namePart" type="namePartDefinition"/>
      </xs:choice>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<!-- namePartDefinition definition -->
<xs:complexType name="namePartDefinition">
  <xs:simpleContent>
    <xs:extension base="mods:xsString">
      <xs:attribute name="type" type="unionNamePartTypeAttributeDefiniton"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

<!-- namePartTypeAttributeDefinition -->
<xs:simpleType name="namePartTypeAttributeDefinition">
  <xs:restriction base="xs:string">
    <xs:enumeration value="department"/>
    <xs:enumeration value="lectorate"/>
    <xs:enumeration value="organisation"/>
  </xs:restriction>
</xs:simpleType>

<!-- unionNamePartTypeAttributeDefinition -->
<xs:simpleType name="unionNamePartTypeAttributeDefiniton">
  <xs:union memberTypes="mods:namePartTypeAttributeDefinition namePartTypeAttributeDefinition"
/>
</xs:simpleType>

</xs:schema>

```