

ISO/TS 14092:2020 Adaptation to climate change

Course outline

Module 1: Introduction to Climate Change and its Impacts

Module 1: Introduction to Climate Change and its Impacts provides an overview of the causes and effects of climate change, as well as the potential impacts of climate change on society and the environment. It also covers the basics of climate change adaptation, including the need for adaptation, the different types of adaptation, and the challenges associated with adaptation. Finally, the module provides an introduction to the ISO/TS 14092:2020 Adaptation to Climate Change course.

Lessons

- Overview of Climate Change and its Causes
- Understanding the Impacts of Climate Change
- Assessing Climate Change Vulnerability
- Adaptation Strategies for Climate Change
- Climate Change Mitigation
- Climate Change and Sustainable Development
- Climate Change and Human Health
- Climate Change and Biodiversity
- Climate Change and Water Resources
- Climate Change and Agriculture

After completing this module, students will be able to:

- Understand the causes and effects of climate change.
- Recognize the potential impacts of climate change on different sectors and regions.
- Develop strategies to reduce the risks associated with climate change.
- Identify and evaluate adaptation options to reduce the impacts of climate change.

Module 2: Understanding the Principles of ISO/TS 14092:2020

Module 2: Understanding the Principles of ISO/TS 14092:2020 provides an overview of the international standard for adaptation to climate change. It covers the purpose and scope of the standard, the principles of adaptation, and the requirements for implementation. It also provides guidance on how to use the standard to develop and implement an adaptation plan.

Lessons

- Overview of ISO/TS 14092:2020
- Principles of Adaptation to Climate Change
- Risk Assessment and Management
- Climate Change Impacts and Vulnerability
- Adaptation Strategies and Measures
- Monitoring and Evaluation
- Communication and Engagement
- Financing Adaptation
- Capacity Building and Knowledge Management
- International Cooperation and Coordination

After completing this module, students will be able to:

- Identify the key principles of ISO/TS 14092:2020 and their application to climate change adaptation.
- Analyze the potential impacts of climate change on different sectors and develop strategies to mitigate them.
- Develop an understanding of the importance of stakeholder engagement in the adaptation process.
- Develop an understanding of the importance of monitoring and evaluation of climate change adaptation initiatives.

Module 3: Assessing Climate Change Risks and Vulnerabilities

Module 3 of the ISO/TS 14092:2020 Adaptation to Climate Change course provides an overview of the assessment of climate change risks and vulnerabilities. It covers topics such as the identification of climate change risks and vulnerabilities, the development of risk management strategies, and the implementation of adaptation measures. The module also provides guidance on how to assess the potential impacts of climate change on different sectors and how to develop effective adaptation plans.

Lessons

- Understanding Climate Change Risks and Vulnerabilities
- Assessing Climate Change Impacts on Businesses
- Developing Climate Change Risk Management Strategies
- Implementing Climate Change Risk Mitigation Measures
- Evaluating Climate Change Risk Reduction Strategies
- Integrating Climate Change Risk Management into Business Planning
- Communicating Climate Change Risk to Stakeholders
- Developing Climate Change Adaptation Plans
- Assessing Climate Change Impacts on Infrastructure
- Assessing Climate Change Impacts on Natural Resources

After completing this module, students will be able to:

- Understand the concept of climate change and its impacts on the environment.
- Identify and assess climate change risks and vulnerabilities.
- Develop strategies to reduce climate change risks and vulnerabilities.
- Implement and monitor climate change adaptation plans.

Module 4: Developing Adaptation Strategies and Plans

Module 4 of the ISO/TS 14092:2020 Adaptation to Climate Change course focuses on developing adaptation strategies and plans. It covers topics such as identifying and assessing climate change risks, developing adaptation objectives, and designing and implementing adaptation strategies and plans. The module also provides guidance on monitoring and evaluating adaptation strategies and plans.

Lessons

- Understanding the Principles of Adaptation Planning
- Assessing Climate Change Impacts and Vulnerabilities
- Identifying Adaptation Options
- Developing Adaptation Strategies and Plans
- Implementing Adaptation Strategies and Plans
- Monitoring and Evaluating Adaptation Strategies and Plans
- Integrating Adaptation into Decision-Making
- Engaging Stakeholders in Adaptation Planning
- Financing Adaptation Strategies and Plans
- Communicating Adaptation Strategies and Plans

After completing this module, students will be able to:

- Understand the principles of ISO/TS 14092:2020 and its application to adaptation to climate change.
- Develop an adaptation strategy and plan that is tailored to the specific needs of the organization.
- Identify and assess the risks associated with climate change and develop appropriate adaptation measures.
- Implement and monitor the adaptation strategy and plan to ensure its effectiveness.

Module 5: Implementing Adaptation Measures

Module 5: Implementing Adaptation Measures is a module in the ISO/TS 14092:2020 Adaptation to Climate Change course. It focuses on the practical implementation of adaptation measures, including the identification of suitable measures, the development of an implementation plan, and the monitoring and evaluation of the measures. It also covers the legal and financial aspects of adaptation, as well as the role of stakeholders in the process.

Lessons

- Understanding the Principles of Adaptation
- Assessing Climate Change Impacts and Vulnerabilities
- Developing Adaptation Strategies
- Implementing Adaptation Measures
- Monitoring and Evaluating Adaptation Measures
- Integrating Adaptation into Decision-Making
- Financing Adaptation
- Communicating Adaptation

- Building Capacity for Adaptation
- Adaptation in the Context of Sustainable Development

After completing this module, students will be able to:

- Understand the principles of adaptation to climate change and the importance of incorporating adaptation into planning and decision-making.
- Identify and assess the risks and opportunities associated with climate change and develop strategies to address them.
- Develop and implement adaptation measures to reduce the impacts of climate change on the environment, society, and economy.
- Monitor and evaluate the effectiveness of adaptation measures and adjust them as needed.

Module 6: Monitoring and Evaluating Adaptation Actions

Module 6: Monitoring and Evaluating Adaptation Actions is a module of the ISO/TS 14092:2020 Adaptation to Climate Change course. It provides guidance on how to monitor and evaluate the effectiveness of adaptation actions, including the use of indicators, metrics, and other tools. It also covers the importance of stakeholder engagement and communication in the monitoring and evaluation process.

Lessons

- Understanding the Principles of Monitoring and Evaluation
- Developing a Monitoring and Evaluation Plan
- Assessing the Effectiveness of Adaptation Actions
- Identifying and Measuring Indicators of Adaptation
- Analyzing and Interpreting Monitoring and Evaluation Data
- Reporting and Communicating Monitoring and Evaluation Results
- Using Monitoring and Evaluation to Improve Adaptation Actions
- Integrating Monitoring and Evaluation into Adaptation Planning
- Assessing the Cost-Effectiveness of Adaptation Actions
- Assessing the Social and Environmental Impacts of Adaptation Actions

After completing this module, students will be able to:

- Understand the importance of monitoring and evaluating adaptation actions to ensure their effectiveness.
- Develop a monitoring and evaluation plan for adaptation actions.
- Identify indicators to measure the success of adaptation actions.
- Analyze the data collected from monitoring and evaluation activities to inform decision-making.

Module 7: Financing Adaptation

Module 7: Financing Adaptation is a module of the ISO/TS 14092:2020 Adaptation to Climate Change course. It provides an overview of the different sources of financing for adaptation projects, including public and private sources, and the various instruments available to access these funds. It also covers

the principles of project appraisal and the importance of monitoring and evaluation.

Lessons

- Understanding the Different Types of Adaptation Financing
- Assessing the Financial Requirements for Adaptation
- Developing a Financing Strategy for Adaptation
- Identifying Sources of Adaptation Financing
- Leveraging Public and Private Financing for Adaptation
- Establishing Financial Instruments for Adaptation
- Managing and Monitoring Adaptation Financing
- Evaluating the Effectiveness of Adaptation Financing

After completing this module, students will be able to:

- Understand the different sources of financing for adaptation to climate change.
- Analyze the financial implications of adaptation measures.
- Develop strategies to access and leverage financing for adaptation.
- Assess the effectiveness of financing mechanisms for adaptation.

Module 8: Communicating and Engaging Stakeholders

Module 8: Communicating and Engaging Stakeholders is designed to help participants understand the importance of engaging stakeholders in the adaptation process. It covers topics such as identifying stakeholders, understanding their interests and needs, and developing effective communication strategies. It also provides guidance on how to effectively engage stakeholders in the adaptation process, including how to build trust and collaboration.

Lessons

- Understanding Stakeholder Needs and Interests
- Developing Effective Communication Strategies
- Engaging Stakeholders in Climate Change Adaptation
- Building Stakeholder Capacity for Adaptation
- Managing Conflict and Negotiating Solutions
- Evaluating Stakeholder Engagement
- Leveraging Stakeholder Resources for Adaptation
- Integrating Stakeholder Perspectives into Adaptation Planning
- Developing Adaptation Strategies with Stakeholders
- Facilitating Stakeholder Participation in Adaptation Decision-Making

After completing this module, students will be able to:

- Understand the importance of stakeholder engagement in the adaptation to climate change process.
- Develop effective strategies for engaging stakeholders in the adaptation to climate change process.
- Identify and assess the needs and interests of stakeholders in the adaptation to climate change process.

- Develop effective communication plans to ensure stakeholders are informed and engaged in the adaptation to climate change process.

Module 9: Building Capacity for Adaptation

Module 9: Building Capacity for Adaptation is a module of the ISO/TS 14092:2020 Adaptation to Climate Change course. It focuses on developing the capacity of individuals and organizations to effectively plan and implement adaptation strategies. It covers topics such as assessing capacity needs, developing capacity building plans, and evaluating the effectiveness of capacity building efforts. It also provides guidance on how to identify and address barriers to adaptation.

Lessons

- Understanding the Principles of Adaptation
- Assessing Climate Change Impacts and Vulnerabilities
- Developing Adaptation Strategies and Plans
- Implementing Adaptation Strategies and Plans
- Monitoring and Evaluating Adaptation Strategies and Plans
- Engaging Stakeholders in Adaptation Planning
- Integrating Adaptation into Decision-Making
- Financing Adaptation
- Building Capacity for Adaptation
- Communicating Adaptation Strategies and Plans

After completing this module, students will be able to:

- Understand the importance of building capacity for adaptation to climate change.
- Develop an understanding of the ISO/TS 14092:2020 Adaptation to climate change standard.
- Identify and assess the risks and opportunities associated with climate change adaptation.
- Develop strategies and plans to implement climate change adaptation measures.

Module 10: Integrating Adaptation into Development Planning

Module 10: Integrating Adaptation into Development Planning is a module of the ISO/TS 14092:2020 Adaptation to Climate Change course. It provides guidance on how to integrate climate change adaptation into development planning processes, including the identification of adaptation options, the assessment of their effectiveness, and the implementation of adaptation measures. It also covers the importance of stakeholder engagement and the need for monitoring and evaluation of adaptation measures.

Lessons

- Understanding the Principles of Adaptation Planning
- Assessing Climate Change Impacts and Vulnerabilities
- Developing Adaptation Strategies and Actions
- Integrating Adaptation into Development Planning
- Evaluating and Monitoring Adaptation Planning

- Engaging Stakeholders in Adaptation Planning
- Financing Adaptation Planning
- Building Capacity for Adaptation Planning
- Adaptation Planning in Practice
- Adaptation Planning in the Context of Sustainable Development Goals

After completing this module, students will be able to:

- Understand the importance of integrating adaptation into development planning.
- Identify the key elements of the ISO/TS 14092:2020 standard.
- Develop strategies to assess and manage climate change risks.
- Implement adaptation measures into development planning processes.