



HCIA-AI V3.5 Change Instructions

| Version | Date | Instruction |
|---------|------------|--|
| V1.0 | 2018/12/28 | Enable V1.0 training materials, lab guidebooks and exam questions |
| V3.0 | 2020/8/20 | Enable V3.0 training materials, lab guidebooks and exam questions |
| V3.5 | 2023/1/6 | Enable V3.5 training materials, lab guidebooks and exam questions V3.5 was released on January 6, 2023, and V3.0 will become unavailable from Oct 6, 2023. The old and new versions coexist for 9 months. |

1. Training material change instructions

The training materials of HCIA-AI V3.5 are as follows:

| Chapter | V3.0 | V3.5 | Change Instructions |
|---------------------------------|------|------|---|
| 1. AI Overview | 15% | 15% | Optimized the content on major schools, application technologies, and fields in AI, Huawei's AI development strategy, and controversies over AI and its future. Deleted the category on intelligent machines. |
| 2. Machine Learning Overview | 20% | 20% | Optimized data preprocessing and gradient descent. Deleted the information on the softmax function and cases. |
| 3. Deep Learning Overview | 20% | 25% | Optimized the description of vanishing and exploding gradients, overfitting, and activation functions. Deleted some network structures. |
| 4. AI Development Framework | 20% | 20% | Added the AI application development process. Optimized the introduction about the MindSpore architecture and features. Deleted the basic and common modules of TensorFlow2. |
| 5. Huawei AI Platforms | 25% | 14% | Added introductions to HarmonyOS, HMS, and MindSpore Lite. Optimized the sections related to Ascend processor hardware, software architecture, and Atlas AI computing platform. Optimized the Huawei Cloud EI service introduction. |
| 6. Cutting-edge AI applications | 0% | 6% | Added AI use cases: reinforcement learning, knowledge graph, GAN, intelligent driving, quantum computing & machine learning. |

2. Lab Guides change instructions

HCIA-AI V3.5 Lab Guides:



| Chapter | V3.0 | V3.5 | Change Instructions |
|---|------|------|---|
| Machine Learning Experiment Guide | 40% | 40% | Added linear regression, linear regression expansion, logistic regression, decision tree, spam classification, and clustering algorithm experiments. Deleted the house price prediction experiment. |
| Deep Learning and AI Development Framework Experiment Guide | 50% | 50% | Added MobileNetV2 image classification, ResNet-50 image classification, and TextCNN sentiment analysis experiments. Optimized MindSpore basics and MNIST handwritten character experiments. Deleted the TensorFlow experiments. |
| ModelArts Experiment | 10% | 10% | Optimized Huawei Cloud EI service experiments. |

3. Test content change instructions

The test content of HCIA-AI V3.5 are as follows, for details about the differences between V3.5 and V3.0, see the change description of the training materials and lab guides:

| Chapter | V3.5 |
|---------------------------------|------|
| 1. AI Overview | 15% |
| 2. Machine Learning Overview | 20% |
| 3. Deep Learning Overview | 25% |
| 4. AI Development Framework | 20% |
| 5. Huawei AI Platforms | 14% |
| 6. Cutting-edge AI applications | 6% |